

Varun Kumar

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Website-[Link](#)

Summary of Experience and Qualifications

- Hands-on experience in all stages of the **Software Development Life Cycle (SDLC)**, including planning, design, testing, and deployment.
- Skilled **Software Developer** with a proven track record of delivering high-quality solutions within time and budget constraints. Adept at communicating complex technical concepts clearly and concisely for optimized understanding. Proactive and goal-driven, focused on delivering robust and dynamic solutions.
- Strong foundation in the **Financial Domain**, with deep understanding of industry-specific needs and requirements.
- Knowledgeable in **Event-Driven Architecture (EDA)** and **GenAI**, with a strong interest in pursuing opportunities in **Data Science** and **GenAI** fields.
- Experienced in **Identity and Access Management (IAM)**, with expertise in **SAP IDM** and ITIDM as a key IAM tool.
- Familiar with **SAP BTP , AI Core**, leveraging it for AI-driven solutions. Experienced in SAP .
- Skilled in **Prompt Engineering**, with a focus on creating efficient and effective prompts for AI applications.
- Holds a knowledge on BTP CAP.
- Have business-level knowledge of Google Cloud's gen AI offerings and understand how Google's AI-first approach can lead organizations toward innovative and responsible AI adoption. They influence gen AI-powered initiatives and identify opportunities across business functions and industries, using Google Cloud's enterprise-ready offerings to accelerate innovation.

Programming Language: Java,Python,Dyalog Apl

Technology: Data Science, EDA, Generative AI,ML,Jenkins,Github,HoneyComb

Applications: Eclipse,JupyterNotebook,SAP BTP,SQL ,SAP IDM,SAP Netweaver ,ITIDM SQL server,Oracle,Pycharm,Intellij,Postman,Insomnia,Jira,Empower ID

Querying Languages: SQL

Operating System: Linux- Basic knowledge

Certification

- **Generative AI Leader** – Google Cloud Certified.- [Gen AI Leader](#)
- **Gen AI Expert Certification** – Achieved this certification at Deloitte, which was designed to provide hands-on experience with Generative AI. The program encompassed a series of comprehensive courses. Provided by Deloitte-[Gen AI Expert- Deloitte](#)
- **Data Science course** – [Internshala](#)
- **Java And Testing-** [ABC institute](#)
- **Artificial Intelligence Foundation Course from** [SkillUp](#)

Certificate Repository – Access my certifications and courses at the following link: [GitHub Repository](#).

Credly- [Credly](#)

Education:

University Visvesvaraya College of Engineering |
Bengaluru, Karnataka Computer Science | 06/2018 Percentage: 75.60

Past Experience:

Collabera | Bengaluru, Karnataka Software Developer | 01/2020- 09/2021

Industry: Consultancy

- Collaborated with **Fiserv** as a client, contributing to key projects and delivering high-quality results.
- Developed and maintained applications using **Java, Dyalog APL, and Oracle DB** technologies.
- Contributed to the development of **PM&T**, a core product offering trading engines and related services.
- Enhanced **Audit Reports** for order committing, routing, and execution processes, while also optimizing functionalities for **Rebalance** and other trading engines under PM&T.
- Refactored and modularized legacy codebases, aligning with modern development standards, resulting in improved functionality and reduced operational costs.
- Efficiently debugged and resolved code errors, ensuring high-performance system operations.
- Created comprehensive documentation for all development activities, adhering to industry best practices.
- Actively participated in code review meetings, offering actionable feedback on bugs, inefficiencies, and innovative solutions to emerging issues.

InvestCloud,Inc | Bengaluru,Karnataka Software Developer | 09/2021 - 06/2024

Industry: Finance

- Delivered key contributions to projects utilizing **Java, Dyalog APL, and Oracle DB** technologies.
- Worked on **Unified Wealth Platform (UWP)** and **Trade Network**, two flagship products enhancing wealth management and trading capabilities.
- Developed and maintained reports including **Sleeve Drift, Security Drift, Drift Rebalance, Scheduled Rebalance, Full Liquidation, and Partial Liquidation** to support business-critical decision-making.
- Designed and implemented the **Trade Network System**, enabling managers to create orders, send them to sponsors, and receive order confirmations seamlessly.
- Contributed to the **UWP Trading Platform**, enabling users to execute orders through the **FIX protocol**, with **BETA** managing order execution for enhanced trading efficiency and accuracy.

Technology: Java,Dyalog APL,Oracle SQL

Service Area: Financial

Project Description

Contributed to the development and enhancement of **Unified Wealth Platform (UWP)** and **Trade Network**, products designed to manage client accounts for trading and generate comprehensive reports such as **Rebalancing Reports, Sleeve Drift Reports, Order Summary Reports, Model Reports**, and more.

- **Unified Wealth Platform (UWP):** Delivered functionalities for effective client account management and reporting to streamline trading operations.
- **Trade Network:** Designed and implemented a system enabling managers to create and submit trades to sponsors for execution. After execution, sponsors provided feedback on the success or failure of the trades.
- Developed and supported a **monitoring system** on the sponsor side to oversee and ensure the accurate execution of trades.

Key Responsibilities:

- **Designed, developed, and deployed robust code solutions** to integrate seamlessly into system architecture, ensuring high performance and reliability.
- **Executed comprehensive end-to-end testing** to validate product functionality, ensuring adherence to quality standards and requirements before deployment.
- **Performed meticulous code reviews** for other developers, promoting code quality, adherence to best practices, and team collaboration.
- **Delivered timely and effective production support**, diagnosing and resolving system issues to minimize downtime and ensure smooth operations.

Present Company

Deloitte India | Bengaluru, Karnataka Software Consultant | 07/2024 – Present

Industry: Consultancy

- Currently working with **SAP** as a client, contributing to various high-impact projects and innovative solutions.
- Developed and maintained different jobs for **IDM** (Identity Management) product using **Java** and **JavaScript**, enabling seamless integration with systems like **ABAP** and **ServiceNow**. The tool effectively manages user access and privileges across connected systems.
- Worked on IPS system which provision the user and groups to different target system.
- Worked on SAP IDM tool and IT IDM tool which manages the Groups and Users and Identity Access Management.
- Worked on the project such as AD Fiori Group App which is developed on SAP BTP
- Used Jenkins, Honeycomb for CI/CD
- Developed a Generative AI chatbot on **SAP BTP** using **CAP** and **SAP AI Core** to answer Deloitte-specific queries. Implemented **LLM-based embeddings and RAG** to retrieve information from **SharePoint** documents. Integrated **SharePoint with SAP BTP** for secure, scalable document ingestion and semantic search.

Technology: Java, Javascript, Sql Server, SAP BTP, Python, GenAI, Github, Jenkins, SAP Netweaver, Empower ID, REST API, Nodejs, Python, Honecomb

Project Description

1. The project is related to the Identity Access management IDM. SAP Identity Management provides central role-based identity management for provisioning user and access data within your heterogeneous system landscape. It enables you to control all identities within your organization, not only for employees, but also for contractors, customers, partners, and other identities that need to access your organization's applications. There are different sources and target system. All the roles and Privileges are maintained in the IDM for the different system. Basically IDM manages the user lifecycle. Synchronization of data between applications that is source and target system.
2. Developed a Generative AI chatbot on **SAP BTP** using **CAP** and **SAP AI Core** to answer Deloitte-specific queries. Implemented **LLM-based embeddings and RAG** to retrieve information from **SharePoint** documents. Integrated **SharePoint with SAP BTP** for secure, scalable document ingestion and semantic search.
3. Worked on the SAP AD Fiori group development App . This application is a **SAP Fiori AD Group Management tool** used to create, update, deactivate, audit, and synchronize Active Directory groups. It manages owners, approvers, ARM enablement, validity periods, and sync flags for Microsoft Entra ID and Google Cloud. It uses CAP/odata services, HANA persistence, XSUAA authorization, email notifications, audit logs, and BTP destinations. The key configured destinations/services are **srv-api, sapit-employee-data, ui5, html5-apps-repo-rt, sap-approuter-**

userapi, and backend-integrated services such as **Fiori_ARM_ADGroupSync**, Job Scheduler, Connectivity, XSUAA, Destination service, and email-related service bindings

4. Worked on the development of Fast API.
 - a. Developed an async FastAPI-based IAS migration service to manage cross-tenant application migration, bulk parent/child app operations, selective field propagation, backup/export, audit logging, and job-based migration reporting for enterprise identity scenarios.
 - b. Engineered production-ready backend capabilities including structured JSON logging, correlation IDs, request auditing, XSUAA scope-based authorization, async rate limiting, cooperative job cancellation, and reusable repository/service architecture.
 - c. Enabled SAP BTP Cloud Foundry deployment through Honeycomb CI/CD by restructuring Python packaging, creating deployment manifests, and resolving build/versioning/pipeline compatibility issues across setuptools, XMAKE, and release workflows.

Key Responsibilities:

- **Efficiently managed Jira tickets**, including conducting in-depth research, creating comprehensive documentation, and performing end-to-end development and testing to meet project requirements and deadlines.
- Implementing and developing the different features
- **Optimized SQL scripts** to significantly improve performance and efficiency, ensuring faster query execution and reduced resource utilization.
- **Resolved technical issues and service tickets** related to SAP Identity Management (SAP IDM) and IT Identity Management (IT IDM), ensuring seamless system operations and user satisfaction.
- **Conducted detailed code reviews** to maintain code quality, enforce best practices, and mentor team members, contributing to the overall success of the development team.

Hackathon

Participated in the Deloitte AI Expert Bootcamp Hackathon March 2025. Below was the objective of the Hackathon.

To meet the increasing demand for predictive risk management solutions, RiskGuardian has tasked its Data Science team with developing a machine learning model capable of classifying potential risks across two key domains: cybersecurity and financial. In an era of rapid digital transformation, organizations across industries such as finance, healthcare, and energy face unprecedented risks that can impact their operations, reputation, and compliance. These risks range from cybersecurity breaches that compromise sensitive data to financial irregularities that disrupt business continuity. Managing these risks effectively requires not only real-time insights but also predictive capabilities to anticipate potential threats and mitigate their impact.

Link to Certificate- [Deloitte AI Expert Bootcamp Hackathon March 2025](#)

Projects

GenAI

1. AccessOps MCP Server | Python, Model Context Protocol, Streamable HTTP, Enterprise Access Management

- Built AccessOps MCP Server, a production-style Python MCP server exposing secure tools, resources, and prompts for enterprise access request troubleshooting and workflow automation.
- Implemented human-in-the-loop write workflows for provisioning retry, ticket creation, notification sending, and ticket closure, ensuring sensitive actions require explicit operator approval.
- Added role-based authorization for write actions using permission checks such as provisioning:retry, ticket:create, ticket:close, and notification:send to prevent unauthorized execution.

- Designed a modular architecture with tool, service, repository, model, utility, and data layers, enabling mock data to be replaced with real enterprise APIs or persistent databases.
- Enhanced production readiness by adding structured error responses, audit logging with correlation IDs, duplicate execution protection, and planned persistent storage for workflow drafts and audit events.
- Github-[MCP-Project](#)

2. AI-Powered Stock Analysis Tool

The **Stock Analysis Tool** helps a beginner investor understand their portfolio, track holdings, import portfolio statements, analyze market data, generate monthly investment suggestions, and receive beginner-friendly explanations using AI.

The project was designed around one core principle:

Recommendation Engine decides using transparent backend logic.

- AI explains the recommendation in simple language.
- AI may extract holdings from uploaded statements, but backend validation controls import.

The system does **not** blindly ask AI to pick stocks or predict the market. Instead, the backend performs structured analysis using profile data, portfolio holdings, market data, risk rules, allocation checks, and scoring logic.

AI is used for:

- Explaining backend-generated recommendations
- Extracting holdings from unstructured statement text into structured JSON

The backend still validates and controls the final import and recommendation logic.

GitHub- [Stock Analysis Tool](#)

3. AI Ticket Assistant

Developed a secure ticket assistant that helps support teams triage IT incidents by analyzing ticket text and generating a summary, category, priority, and recommended next action. Deployed the solution on Cloud Foundry with SAP App Router, XSUAA authentication, role-based authorization, Destination Service-based routing, and HTML5 Application Repository frontend hosting. Refactored the backend into a modular AI-ready architecture with mock analysis today and future SAP Generative

GitHub- [AI-ticket-assistant](#)

4. AI-Powered Job Matching System using LLMs & Vector Databases

Developed an **AI-driven job matching application** that automates **resume-to-JD comparison** using **Large Language Models (LLMs) and ChromaDB**. The system extracts **key job details** (Title, Skills, Experience, Salary) from uploaded **JD documents** and **career page URLs**, converts them into **vector embeddings**, and performs **semantic similarity matching** to compute a **match percentage**. This solution streamlines **candidate screening** and enhances **recruitment efficiency** through **automated, intelligent matching**

GitHub; [JD_MAtch](#)

ML project.

Worked on the multiple Machine Learning projects.

GitHub link(https://github.com/Varun988/ML_and_Datascience)

Social Media Profile

- github.com/Varun988
- www.techgig.com/pub/varun167
- <https://www.credly.com/users/varun-kumar.d1ec6b1a>

Volunteering

- (AI Workshops) - with students lead interactive workshops covering basic AI principles and open AI platforms through hands-on activities and demonstrations.
- Animal shelter visit - Bangalore- Visited the shelter to perform the day today activity that usually performed by the workers working in the shelter.