

ABHAY RAVI KUMAR

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EDUCATION

Stony Brook University

Master of Science in Computer Science

Coursework: Visualization, Machine Learning, Data Management

Jan 2024 – Dec 2025

Stony Brook, NY

RV Institute of Technology and Management

Bachelor of Technology in Information Science Engineering

Coursework: Operating Systems, Data Mining and Data Warehousing, Artificial Intelligence, Big Data Analytics

Aug 2019 – May 2023

Bengaluru, India

TECHNICAL SKILLS

Programming Languages: Python, Java, Kotlin, SQL, C++, JavaScript.

Data Analytics & Big Data: Power BI, Tableau, Qlik, PySpark, Apache Spark, D3.js, Scikit-learn, Matplotlib.

Machine Learning & NLP: TensorFlow, PyTorch, Hugging Face, Vertex AI, TensorFlow Hub, Transformers, Generative AI.

AI & Agentic Workflows: LLMs, RAG, LangGraph, Pinecone, Vector Search, Google ADK.

Cloud & DevOps: AWS, Terraform, Docker, Kubernetes, GitHub Actions, Helm, CI/CD, REST APIs.

Web Development & Databases: Spring Boot, Node.js, React.js, TypeScript, GraphQL, PostgreSQL, MongoDB, Redis.

Enterprise Systems: SAP ECC, ERP Integration.

WORK EXPERIENCE

Procurement Operations Analyst

Hewlett Packard Enterprise

Feb 2023 – Dec 2023

Bengaluru, India

- Analyzed global procurement and inventory data from **SAP ECC** and **Qlik** to identify system inefficiencies in CPU/HDD shipments, improving regional delivery time by **12%**.
- Developed automated **supply chain dashboards** integrating SAP data into **Power BI** for real-time visibility, reducing stockout escalations by **30%**.
- Performed root-cause analysis on delayed orders and inventory buildup using Python and time-series data, contributing to a **15% reduction** in inventory holding costs over three quarters.
- Led the design of **data models** and **KPIs** to optimize replenishment forecasting for **250+ parts**, improving demand accuracy and operational efficiency.

Intern

Tata Elxsi

Aug 2022 – Oct 2022

Bengaluru, India

- Redesigned app architecture using MVVM, Repository pattern, Room, and LiveData cutting screen load time by **30%** and reducing UI response latency by **150ms**.
- Optimized background task execution with Coroutines and WorkManager reduced frame drops by **25%** and improved workflow stability across **5+ UI components**.
- Built a media playback module using ExoPlayer, MVVM, and HILT achieved smooth streaming with **40% fewer** buffering events under weak networks via adaptive bitrate handling.

PROJECTS

Cloud DevOps Pipeline for Microservices on AWS | *Terraform, Kubernetes, AWS EKS, Docker, GitHub Actions, Helm*

- Engineered an automated CI/CD pipeline with GitHub Actions and Helm for containerized microservices, enabling zero-downtime rolling deployments to **AWS EKS** and cutting setup time by **>80%** through Infrastructure as Code.
- Designed a production-grade monitoring stack using **Prometheus, Grafana**, and CloudWatch via Terraform, boosting system observability and reducing incident response time by **40%**.

Resume Parser: AI-Driven Candidate Profiling | *Python, SpaCy, Hugging Face Transformers, Tesseract OCR, PostgreSQL*

- Built a **hybrid NLP+OCR engine** using Hugging Face Transformers and SpaCy to extract structured data from PDFs and scanned resumes with **92%** accuracy.
- Engineered a **cloud-ready automated pipeline** with **FastAPI** and PostgreSQL, cutting screening time by **80%** and enabling real-time candidate shortlisting.
- Containerized the system with Docker and designed a modular, scalable architecture for seamless deployment and integration with modern recruitment platforms.

Supply Chain Optimizer | *Python, OR-Tools, Pandas, Dash, Plotly*

- Developed a logistics optimization tool using OR-Tools to simulate and optimize multi-warehouse inventory distribution and delivery routing.
- Achieved **25%** improvement in delivery efficiency and **40%** reduction in stockouts across simulated models.