

Rishabh Sahni

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EDUCATION

Birla Institute of Technology and Science, Pilani

Bachelor of Engineering in Computer Science GPA: 8.35/10.0

Pilani, India

Oct 2021 – Jul 2025

EXPERIENCE

- Tata 1mg** Gurugram, India
Software Development Engineer
July 2021 – Present
 - On-Call AI Bot:** Developed an AI-driven on-call assistant that understands user-reported issues and in real time diagnoses and resolves both production-level and user-facing problems by leveraging context from the codebase.
- Eightfold.ai** Noida, India
Engineering Intern, AI Platform Team
July 2024 – Dec 2024
 - Image Resume Parsing:** Enabled image resume parsing by integrating AWS Textract. The system extracts text from image resumes and routes them into the parsing pipeline, which enhanced parser flexibility and usability.
 - LLM Router Model:** Built a model to route LLM requests across APIs based on cost, latency, and accuracy. Supported both static and dynamic routing. Reduced token usage while maintaining model quality in production.
 - Full-Stack Development:** Developed internal tools and dashboards for team operations. Worked across backend and frontend for system integration. Improved efficiency through quick access to model metrics and workflows.
- FernGlasz** Gurgaon, India
Data Intern
May 2024 – July 2024
 - Candidate-Job Matching Models:** Built ML/DL models to match resumes with job descriptions. Used structured and unstructured data to enhance match accuracy. Deployed models as part of the internal engine.
 - Job Intelligence Pipeline:** Used FastAPI and MLflow to build a pipeline for skill extraction and job domain classification. Parsed resumes and job descriptions using LlamaParse and trained models for accurate labeling.
 - Data Insights and SQL Analysis:** Analyzed candidate and job datasets to extract matching signals. Used Python and PostgreSQL for exploratory and statistical analysis. Insights were used to improve model performance.
- Macquarie Global Services** Gurugram, India
Data Intern, Financial Management Group – Enabling Team
Jan 2024 – July 2024
 - Automation Development:** Created and optimized multiple automations tailored to internal client needs using Alteryx, Power BI, and RPA tools, significantly improving the efficiency of financial operations and data workflows.
 - Kanban Integration:** Designed and implemented interactive Kanban boards integrated with Jira, enabling seamless task management, real-time tracking, and enhanced visibility for project progress across stakeholders.
 - Performance Dashboards:** Developed interactive Power BI dashboards to analyze task allocation, deadlines, and time utilization; the dashboards were praised by senior management and served as reference model for other teams.

PROJECTS

- Hostel Allocation System:** Developed a room assignment system for BITS Pilani using SQL, Node.js, and Tkinter. Enabled admins to allocate hostel rooms efficiently through a GUI frontend and backend database.
- Payment Fraud Detection with GNNs:** Built a binary classification model using Graph Neural Networks to detect fraudulent transactions. Utilized synthetic datasets and a reproducible ML pipeline for deployment.
- Object Detection & Semantic Mapping:** Designed a real-time navigation assistant for the visually impaired using YOLO, ROS, and DeepSpeech. Integrated speech, object detection, and spatial mapping for contextual understanding.
- Quantitative Analysis of Asset Classes:** Analyzed historical data of GLD, CL, VIX, TLT, and SPY to explore correlations and hedging opportunities using Python and financial libraries during varying market conditions.
- Models for Stock Prediction:** Built a predictive model for stock price trends using ARIMA for time series forecasting and Support Vector Machine (SVM) for classification. Aimed at improving investment decision-making.

PROGRAMMING SKILLS

- Languages:** Python, Java, SQL, C++
- Technologies & Tools:** AWS, Sanic, Git, Scikit-learn, Pandas