

Nikhil Mahesh

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SUMMARY

AI Engineer specializing in NLP, chatbots, and predictive analytics. Skilled in developing AI-powered communication systems, fine-tuning LLMs, and deploying ML pipelines using Python, Rasa, and HuggingFace. Experienced with AWS and OpenAI APIs for scalable conversational AI applications in fintech and automation.

WORK EXPERIENCE

ABB

Student Intern

Bengaluru, Karnataka

Feb 2024 – July 2024

- Built Python/Django ETL pipelines to monitor robotic systems, reducing diagnostic time by **30%**.
- Optimized SQL data models for BI dashboards, improving query efficiency by **25%**.
- Collaborated with global teams to deliver scalable ML and analytics solutions.
- Supported feasibility studies for ML-driven automation and agent-based systems.

PROJECTS

RECOMMENDATION SYSTEM-Github

- Built a **Hybrid Recommendation System** combining **collaborative and content-based filtering**, achieving **85% prediction accuracy** through vector similarity search optimization.
- Implemented **user-item similarity modeling** and automated recommendation ranking to enhance personalization and system efficiency.

SENTIMENT ANALYSIS-Github

- Fine-tuned **BERT** model for **real-time sentiment classification**, leveraging **transfer learning** to improve contextual understanding.
- Integrated **FAISS retrieval** for fast vector similarity search, achieving **92% model accuracy** on test data.

LOAN RECOVERY SYSTEM-Github

- Developed a **Loan Recovery System** using **Random Forest** to predict loan recovery probability, enhancing risk assessment accuracy and prioritization of recovery efforts.
- Built an interactive **Streamlit web interface** supporting individual and batch loan analysis with **real-time visualizations** for recovery probability and key risk factors.

SKILLS

EDUCATION

Amrita Vishwa Vidyapeetham

Master of Technology

Major in Data Science

Bengaluru, Karnataka

Sept 2022-July 2024

Gyan Ganga Institute of Technology and Science

Bachelor of Technology

Major in Computer Science and Engineering

Jabalpur, M.P

Aug 2018 - Jun 2022

CERTIFICATIONS

Advanced Certification in Data Science and AI, Google Data Analytics Google AI Essentials, GenAI Job Simulation, Data Science Job Simulation, Data Analyst Job Simulation