

Nikhil Mahesh

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SUMMARY

Machine Learning Engineer skilled in designing, training, and deploying ML models for real-world business impact. Experienced in full project lifecycle, data pipelines, and performance optimization.

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

Languages: Python, SQL

ML & AI: TensorFlow, PyTorch, Scikit-learn, Keras, Predictive Analytics, Feature Engineering

Leadership & Collaboration: Project Ownership, Mentorship, Agile Execution, Cross-Team Coordination

MLOps & Deployment: Docker, MLflow, CI/CD, Databricks, AWS SageMaker, Azure ML

Data & Visualization: ETL Pipelines, Data Cleaning, Power BI, Pandas, NumPy, Seaborn

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