

R J Adithya Yadav

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SUMMARY

Applied AI and Data Science engineer with experience in building and deploying machine learning systems. Currently working as a Risk Analytics Intern at EY, developing data pipelines and anomaly detection systems on large-scale financial datasets. Strong focus on end-to-end AI solutions, from model development to real-world deployment.

EXPERIENCE

Ernst & Young (EY) — Bangalore, India
Data Analytics Intern

Jan 2026 – Ongoing

- Developed Python data pipelines to process large transactional datasets for risk analytics.
- Performed data validation and anomaly detection on financial data to improve audit accuracy.
- Built Power BI dashboards to visualize risk indicators and support audit decision-making.
- Collaborated with audit teams to transform raw financial data into structured analytical datasets.

PROJECTS

Ocular Cancer Detection Platform (Deep Learning, Medical AI, Full-Stack) : Developed and deployed a deep learning-based medical image classification system achieving up to 92% accuracy on ocular cancer detection tasks. Designed a three-tier AI architecture with backend APIs using FastAPI to serve real-time predictions with 150 ms latency. Implemented secure data handling for scalable and reliable deployment.

Crypto AI Trading Platform (Time-Series Forecasting, Applied Machine Learning) : Built a time-series forecasting system using LSTM networks for multi-asset price prediction. Designed end-to-end data pipelines including preprocessing, feature engineering, and model evaluation. Deployed prediction services via REST APIs.

Real-Time AI Voice Assistant (NLP, Conversational AI, Systems Engineering) : Developed a real-time conversational AI system integrating NLP pipelines with backend logic and persistent storage. Designed modular components for speech processing, context management, and response generation, simulating production-level AI service architecture. Focused on system scalability and low-latency interaction.

Transactional Data Processing & Risk Monitoring Pipeline (Python, Excel, Power BI) : Built a data processing pipeline to analyze large-scale transactional datasets using Python and Excel. Performed data cleaning, and transformation to generate structured datasets for analysis. Designed an interactive Power BI dashboard to visualize risk indicators and support data-driven decision-making for a retail client.

SKILLS SUMMARY

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| Programming | Python, SQL, JavaScript |
| Machine Learning | TensorFlow, Keras, Scikit-learn, Computer Vision, NLP, LSTM |
| Data Engineering | Pandas, NumPy, Data Cleaning, Feature Engineering |
| Backend & ML Deployment | FastAPI, REST APIs, Model Serving |
| Databases | MySQL, SQL Server, MongoDB |
| Tools | Git, Jupyter Notebook, Power BI, MS Excel, Tableau |

EDUCATION

Presidency University
Bachelor of Technology - Computer Science and Engineering (Blockchain)

July 2022 – Ongoing
CGPA: 7.34/10

PUBLICATIONS

Yadav, R J Adithya (Nov. 2025). "An Integrated Three-Tier Microservice Architecture for Deploying State-of-the-Art Ocular Cancer Detection Models". DOI: <https://zenodo.org/records/17662144>