

# Ameya Ajay Jadhav

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## PROFILE

AI & Data Engineer with hands-on experience building Python-based data pipelines, RAG applications, and backend APIs. Skilled in LangChain, retrieval workflows, SQL, and cloud deployment using Azure. Strong foundation in data processing, ETL basics, and developing practical, end-to-end AI solutions. Experienced in applying data engineering and machine learning concepts through internship and academic projects.

## PROFESSIONAL EXPERIENCE

### Data Analyst Intern, NullClass Edtech Pvt Ltd

09/2024 – 12/2024

- Analysed 100k+ records using Python (Pandas, NumPy, Matplotlib) to identify business patterns.
- Built interactive Power BI dashboards, reducing manual queries by 30%.
- Cleaned and optimized large datasets in Excel for better data quality and faster processing.
- Delivered weekly insights with product and engineering teams to improve student engagement strategies.

## EDUCATION

### PG Diploma, Savitribai Phule Pune University

09/2023 – 10/2024

Data Science and AI

Pune, India

### Bachelors Of Science, Savitribai Phule Pune University

08/2020 – 07/2023

Cyber Security and Digital Science

Pune, India

### Diploma, Marathwada Mitra Mandal Polytechnic

07/2017 – 07/2020

Computer Engineer

Pune, India

## SKILLS

**Programming Languages:** Python, SQL, Java, JavaScript

**Machine Learning & Deep Learning:** Scikit-Learn, ML Algorithms (Classification, Regression, Clustering), Feature Engineering, Model Training & Evaluation, Cross-Validation, Neural Networks, CNN (Beginner), RNN (Beginner), Transformers (Beginner), TensorFlow (Beginner), PyTorch (Beginner)

**Natural Language Processing:** Text Preprocessing, Tokenization, Sentiment Analysis (Beginner), NER (Beginner), spaCy (Beginner), HuggingFace Transformers (Beginner)

**Data Engineering:** Pandas, NumPy, PySpark (Basic), ETL, Data Cleaning, Data Pipelines

**Databases:** MySQL, PostgreSQL, SQL Server, Oracle, MongoDB (Beginner), Neo4j (Beginner)

**Generative AI / LLMs:** GPT, Claude, Gemini, OpenAI API, LangChain, LCEL, RAG Pipelines, Prompt Engineering, AI Agents, LangGraph

**DevOps / MLOps / Cloud:** Docker, CI/CD, Azure, Kubernetes (Beginner), Linux (Basic), Git

**Other:** Debugging & Troubleshooting, Problem Solving, Communication Skills

## PROJECTS

### Driver Sleeping Detection

- Developed a real-time eye-tracking system using OpenCV + Dlib to calculate Eye Aspect Ratio (EAR).
- Triggered alerts for prolonged eye closure, improving system responsiveness during testing.
- Implemented frame-by-frame analysis with efficient pre-processing for smooth real-time performance.

### Real Estate Price Prediction

- Designed RESTful APIs using Django to serve ML model predictions.
- Connected backend to Oracle (PL/SQL), optimizing stored procedures for faster data retrieval.
- Deployed on Azure App Service using CI/CD pipelines (Azure DevOps).
- Handled dataset cleaning, feature engineering, and model evaluation.

### E-commerce Backend API using Django

- Built CRUD APIs for users, products, and orders using Django REST Framework.
- Integrated basic React components to test user flows.
- Deployed with Docker + Azure DevOps to improve deployment reliability.

## LANGUAGES

• English

• Marathi

• Hindi