

Aniket Deshpande

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SUMMARY

Data Scientist & ML Engineer with experience building production-ready predictive models, data mining and modeling large datasets, applying statistical analysis, running A/B experiments, and deploying end-to-end ML systems on cloud platforms.

EDUCATION

ARIZONA STATE UNIVERSITY

M.S. in Data Science, Analytics, and Engineering (Computing & Decision Analytics)

Tempe, AZ

Aug 2024 - May '26 (Exp.)

CGPA: **3.8 / 4.0**

Relevant Coursework: Machine Learning, Statistical Modeling, Big Data Analytics, Cloud Computing

MIT WORLD PEACE UNIVERSITY

PG Diploma in Artificial Intelligence & Machine Learning (CGPA: **3.7 / 4.0**)

Pune, India

July 2022 - May 2023

Bachelor of Computer Application (CGPA: **3.8 / 4.0**)

July 2019 - May 2022

WORK EXPERIENCE

EDPLUS at ASU

Instructional Design Assistant

Scottsdale, AZ

Aug 2024 - present

- Supported **personalization research** by analyzing 10K+ student interactions from adaptive learning and gamified modules across 15+ courses
- Prepared and structured datasets with 20+ features for psychometric model training, **improving early-risk detection** and **QA** for readiness checks
- Created detailed documentation and collaborated with 2 cross-functional teams for **ML model deployment** and **A/B testing** in production courses

SUZLON ENERGY Pvt. Ltd.

Pune, India

Data Analyst Intern

May 2021 - Aug 2021

- Built **predictive models** in Python to estimate Remaining Useful Life (RUL) of wind turbines; improved failure detection accuracy to 95%
- Processed **large-scale SCADA & CMS sensor data** with Pandas/NumPy for **time-series anomaly detection**, and built **Tableau dashboards** to monitor operational risks and system performance

UNIVERSITY PROJECTS

LLM-Powered NLP Web Application

- Created a Flask-based **generative AI platform** using GPT-2 and BERT for sentiment (85%), and text generation
- Deployed with Docker & FastAPI (500+ API requests/day), integrating **model lifecycle optimization** and explainability methods

RAG-Based Question Answering System

- Built a document-grounded QA system using **LangChain, and OpenAI embeddings**; reduced hallucinations by 40%
- Evaluated on custom corpus (500+ docs) with BLEU & ROUGE (78% semantic accuracy) and applied **prompt engineering** for Audit insights

Stockio: Financial Forecasting & Anomaly Detection

- Built forecasting pipeline in **PyTorch & Scikit-learn (LSTM, XGBoost)** with 93% anomaly detection precision
- Applied **clustering & explainability (SHAP)** for risk insights; deployed via **Azure DevOps & Git**

SKILLS & CERTIFICATIONS

- ML & AI:** PyTorch, Scikit-learn, XGBoost, Transformers (HuggingFace), LightGBM, LSTM, Statistical Analysis
- NLP & LLMs:** Text classification, Sentiment Analysis, GPT-2, Speech Emotion Recognition
- Data & Cloud:** SQL Server, AWS (Sagemaker, EMR, Glue, S3, Kinesis), Azure, Apache Spark, Pandas
- Visualization & Tools:** Tableau, Matplotlib, Jupyter, Docker, Linux, Agile workflows, Git version control, CI/CD pipelines
- Certifications & Training:** HarvardX (High Dimensional Data Analysis), IBM (Data Science Professional), **AWS Certified Machine learning Specialty**, Infosys Springboard (Applied NLP)