

# Aniket Deshpande

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## EDUCATION

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### ARIZONA STATE UNIVERSITY

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

Cumulative GPA: 3.6/4.0

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

Tempe, AZ

Expected May 2026

### MIT WORLD PEACE UNIVERSITY

PG Diploma in Artificial Intelligence & Machine Learning

Cumulative GPA: 3.7/4.0

Bachelor of Computer Application

Cumulative GPA: 3.8/4.0

Pune, India

Jul 2022 - May 2023

Jul 2019 - May 2022

## WORK EXPERIENCE

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### EDPLUS at ASU

Data Science | Learning Analyst Assistant

Scottsdale, AZ

Aug 2024 – present

- Supported **personalization research** by analyzing 10K+ student interactions from adaptive learning and gamified modules across 15+ courses
- Built **20+ feature** datasets for psychometric model training to improve early-risk detection and readiness QA; authored detailed docs and partnered with **2 cross-functional teams** to deploy and **A/B test** models in production courses.

### SUZLON ENERGY Pvt. Ltd.

Data Analyst Intern

Pune, India

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

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### LLM-Powered NLP Web Application

- Delivered split-screen LLM app (FastAPI API + Gradio UI) **backed by GPT-4 (OpenAI/OpenRouter)** with a pluggable layer to swap **Llama-3**; deployed as 2 Hugging Face Spaces with CI/CD.
- Deployed with **Docker + FastAPI, 500+ API req/day**, with model lifecycle controls in a one-page dark UI.

### RAG-Based Question Answering System

- Shipped a free-tier RAG QA for SEC 10-K/10-Q: **FAISS + paragraph-level citations**, tunable **top-k/chunking**, and **Risk-only (Item 1A) mode**.
- CPU-only** pipeline with eval hooks (**BLEU/ROUGE**) and automation: weekly EDGAR refresh or \$0 idle on **AWS** (Lambda reserved concurrency = 0).

### Stockio: Financial Forecasting & Anomaly Detection

- Launched** Stockio: Streamlit app pulling Yahoo prices with a **5-day** baseline forecast (**60-day** trend + **EMA(20)**) and anomaly flags via **return z-scores ( $|z| \geq 3$ )** in one chart.
- Deployed** on Hugging Face Spaces: single-page UI, **daily refresh**, and on-disk caching for low-latency loads.

## SKILLS & CERTIFICATIONS

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- 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 (S3, EC2), 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 (Machine Learning specialty)**, Infosys Springboard (Applied NLP)