

# Aniket Deshpande

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## EDUCATION

### 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

### 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
- Prepared and structured datasets with 20+ features for psychometric model training, improving early-risk detection
- 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.

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%
- Preprocessed high-volume SCADA and CMS data using Pandas and NumPy; optimized inputs for time-series modeling
- Designed dashboards in Tableau to visualize sensor anomalies and system performance trends

## UNIVERSITY PROJECTS

### LLM-Powered NLP Platform

- Built a Flask-based NLP app using Hugging Face Transformers (GPT-2, BERT) for 3 tasks: sentiment (85%), emotion (71%), and text generation
- Deployed with Docker & FastAPI, scaling to handle 500+ API requests/day in a test environment

### RAG-Based Question Answering System

- Designed a document-grounded QA system using LangChain, and OpenAI embeddings; reduced hallucinations by 40%
- Evaluated on custom corpus (500+ docs) with BLEU/ROUGE metrics; achieved 78% average semantic accuracy

### Entity Linking & Document Extraction Engine

- Extracted and linked 2,000+ entities from OCR-processed legal PDFs using spaCy, pgvector, and Wikidata resolution
- Populated PostgreSQL with structured outputs and visualized results via Streamlit dashboard with <1s query latency

## 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 (S3, EC2), Apache Spark, Pandas
- Visualization & Tools:** Tableau, Power BI, Matplotlib, Jupyter, Git, Docker, Linux, Bash
- Certifications & Training:** HarvardX (High Dimensional Data Analysis), IBM (Data Science Professional), AWS (Cloud Practitioner), Infosys Springboard (Applied NLP)