

# Abhishek Teja Goli

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## WORK EXPERIENCE

### Topcon Healthcare

Remote

Data Science Intern

June 2025 – Present

- Automated Excel report generation by developing Python scripts that parsed system log files, reducing manual data entry time by 80%.
- Fine-tuned the Automorph deep learning pipeline on Azure Databricks to improve retinal image segmentation accuracy for NW400 images by 30%.
- Built scalable data workflows in Azure Databricks, leveraging distributed computing to accelerate image model training by 2x.
- Co-developed an intern social app to streamline daily check-ins and event tracking, enhancing intern engagement across 20+ team members.

### Research Assistant, KASTLE lab

Wright State University

March 2025 – Present

- Conducting applied research under Dr. Cogan Shimizu, focusing on knowledge graphs, LLMs, and semantic technologies.

### DataBeat

Telangana, India

Data Analyst Intern

Feb 2024 – July 2024

- Engineered deep learning models using ResNet, LSTM, and RNN to improve crop disease classification accuracy to 94%.
- Redesigned Python-Django data ingestion pipelines, cutting processing time by 40%. and implementing best practices for data warehouse management.
- Streamlined ETL workflows using Azure Data Factory and Python, resulting in 50% faster data processing and enabling real-time analytics for client dashboards.
- Built a predictive analytics model for ad forecasting (Nexstar Media Group), reducing manual reporting by 70% and improving forecast accuracy by 15%.

## PROJECTS

### Organization-Specific LLM Application | [Link](#)

- Architected an enterprise-grade Retrieval-Augmented Generation (RAG) system enabling creation of custom LLMs using proprietary data, increasing information retrieval accuracy by 85%.
- Engineered a scalable vector database with FAISS and SQLite3, integrating IndexIVFFlat indexing for sub-500ms query responses on 10GB+ datasets. Implemented Llama 3.2 (3B parameters) with plans to upgrade to Llama 3.3 (70B) for enhanced performance.
- Developed a Python-based RESTful API processing multiple files formats and transforms, optimizing embedding efficiency by 40%.

### Smart Movie Recommendation System | [Link](#)

- Engineered an emotion-based recommendation engine using Natural Language Processing and deep learning (LSTM, RNN) analyzing user sentiment to deliver personalized movie suggestions with 95% accuracy.
- Integrated hybrid filtering algorithms (collaborative and content-based), improving recommendation relevance by 35%, scaling to 100+ concurrent users using load balancing and database sharing.
- Enhanced precision-recall metrics through A/B testing, improving model accuracy by 20%.

### Mental Health Severity Classification System | [Link](#)

- Developed an ML model for mental health severity classification, achieving 92% accuracy.
- Evaluated Decision Trees, Naive Bayes, and KNN, optimizing F1-score by 15%.

## EDUCATION

### Wright State University

Dayton, OH

Master of Science in Data Science | GPA: 3.6/4.0

Aug 2024 – Present

### Mahatma Gandhi Institute of Technology

Telangana, India

B. Tech in Computer Science and Engineering (Data Science) | GPA: 3.06/4.0

Aug 2020 – June 2024

## TECHNICAL SKILLS

**Programming & Database** : Python, SQL, Postgres

**Libraries & Frameworks** : Pandas, numpy, Flask, Streamlit, Tensorflow, Pytorch

**Data Science and Analytics** : ETL Pipelines, Data Cleaning, Data Wrangling, Statistical Modeling, A/B Testing, Hypothesis Testing

**Data Visualization** : Matplotlib, Seaborn, Plotly, Tableau, Power BI

**ML Frameworks:** : Regression, Classification, Clustering, Predictive Modeling, RAG, LLMs, NLP, Gen AI

**Cloud and Tools** : Cloud platforms (AWS, GCP), Azure Databricks, Git, Jupyter Notebooks, VS Code, Excel

## CERTIFICATIONS

- Certified in **Data Science** by IBM.
- Google Data Analytics** from Google
- Certified by NPTEL in **Natural Language Processing (NLP)**.
- Earned **Python** and **Machine Learning** certification from **Kaggle**.