

Nagur Shareef Shaik

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EDUCATION

Georgia State University

Atlanta, GA

Master of Science in Computer Science, GPA: 4.17/4.30

Aug 2023 – May 2025

Coursework: Advanced Machine Learning, Deep Learning, Computer Vision, Natural Language Processing, Digital Image Processing, Computational Intelligence, Data Science

TECHNICAL SKILLS

Languages: Python, Java, SQL

Technologies: LangChain, Streamlit, Flask, FastAPI, Spring Boot, REST APIs, Microservices

Libraries: PyTorch, TensorFlow, Keras, Scikit-Learn, OpenCV, NLTK, NumPy, Pandas, Matplotlib

Cloud & DevOps Tools: Azure ML Studio, Azure AI Services, Azure DevOps, Git, Docker

Research Interests: Deep learning, Multi-modal Learning, Attention Networks, Large Language Models

Certifications: Azure AI Fundamentals, Deep Learning Specialization, Python for Everybody

EXPERIENCE

UST Global Inc.

July 2024 – Present

Developer III (Co-op) | Elevance Health - GBD COINS

(Remote) Aliso Viejo, CA

- Developed a **Python** and **SQL** data clean-up script to resolve commission payment inconsistencies in health insurance policies, preventing over **\$500K** in overpayments and streamlining processing time.

Georgia State University

Sep 2023 – Present

Graduate Research Assistant | [TReNDS Center](#)

Atlanta, GA

- Customized **Multi-modal LLMs** for automated report generation from medical images and text using **PyTorch**, achieving a **13.4% higher BLEU4** than VisionGPT, and reducing inference time to **1.6 sec** per image.
- Developed image classification models using **TensorFlow/Keras**, for diagnosing chronic diseases like retinopathy, schizophrenia, breast cancer, and colon cancer from respective medical images, reducing **5%–7%** false negatives.

Carelon Global Solutions

Sep 2022 – Aug 2023

Software Engineer III | Elevance Health - GBD COINS

Hyderabad, TS

- Developed **REST APIs** for **COmpensation INcentive System**, a **Microservices** based application, to validate, compute, and expedite incentive payments, achieving a **10%** reduction in processing time & enhancing scalability.
- Resolved critical production issues in commissions calculation flow, ensuring accurate agent advance computation, saving **\$1.5 million** in historical commission overpayments. Received **Go Above Impact Award** for this work.

Tata Consultancy Services

Aug 2020 – Sep 2022

Systems Engineer | Analytics & Insights Business Unit

Hyderabad, TS

- Designed a Bug Root Cause Prediction System based on logs, by implementing **Attention LSTM** model in **Azure ML Studio**, cutting the debugging efforts and saving **3 Full-Time Equivalent**s annually.
- Implemented an **Azure DevOps** Model Deployment pipeline, reducing deployment time **from 2 to 1.2 hours** and increasing system availability by **25%**. Recognized as **Star Performer** of the team for this significant work.
- Built a custom SonarQube plugin for static code analysis, integrated into pre-build pipelines, reducing errors and vulnerabilities by **15%**, saving **6 hours** of manual review time per week, and adhering to coding standards.

RESEARCH ACCOMPLISHMENTS

- Published **14** research papers in reputed journals and presented **5** papers at top conferences, including **ICIP 2024**, **ISBI 2024/2025**, and **ICASSP 2025**, with **900+** citations and **12** H-index, pioneering advancements in Attention models, Multi-modal learning, Transformers, and Large Vision-Language Models ([Google Scholar](#)).
- Active reviewer for **20+** journals and conferences, evaluating **30+** articles in Machine Learning.

PROJECTS

Retinal Health Diagnostics | [Github](#) | Python, Flask, SQL, TensorFlow, OpenCV, Git

Aug 2023 - Dec 2023

- Created an AI system for diagnosing chronic retinal diseases including cataracts, diabetic retinopathy, and macular edema, achieving an accuracy of **97.5%**, **85.6%**, **94.6%** respectively.
- Automated medical report generation, reducing time from several minutes to under **5 secs**, aiding radiologists.