

## Shareef Shaik

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### WORK EXPERIENCE

#### Graduate Research Assistant

Clemson, USA

Clemson University | DeepLearning, Predictive Modelling, Regression analysis

04/23 - present

- Developed optimized computer vision algorithms for precise plant segmentation in aerial imagery, leading to a 20% improvement in yield prediction accuracy
- Applied machine learning algorithms to analyze spectral data, achieving a significant 30% improvement in accuracy.
- Established automated data pipelines resulting in a 20% reduction in data retrieval time and fostering improved collaboration among team members.

#### Data Analyst Intern

Secunderabad, India

Maxwell Computer Solutions | Excel, Python, Tableau, SQL, AWS

05/22-08/22

- Analyzed sales data from 2000 users, leveraging advanced analytics to inform marketing and product teams' strategies and key performance indicators (KPIs).
- Developed interactive data visualizations using Tableau and Power BI, improving data understanding for both technical and non-technical stakeholders, leading to a 15% increase in stakeholder engagement
- Collaborated closely with leadership and development teams to elicit and document precise data requirements, resulting in a 25% reduction in project development time

### SKILLS SUMMARY

**Programming & Scripting Languages:** Proficient in Python, Java, C++, R, and MATLAB.

**Machine Learning/AI:** Expertise in deep learning, supervised and unsupervised learning, NLP, and model fine-tuning (including LLaMA). Proficient with TensorFlow, PyTorch, Scikit-Learn.

**Data Analysis & Visualization:** Proficient in SQL, Spark SQL, statistical analysis, hypothesis testing, regression analysis, Tableau, Power BI, D3.js, Plotly, Matplotlib, and Seaborn.

**Cloud Technologies:** Experienced with AWS, Google Cloud Platform, and Microsoft Azure.

**Software & Tools:** Advanced knowledge in NumPy, Pandas, PySpark, Apache Spark, proficient in high-level prototyping with MATLAB.

**Engineering & Simulation:** Experienced in algorithm development, modeling, simulation, and data analysis for safety-critical systems in transportation.

### PROJECTS.

#### Quality Evaluation of Skull Stripped Brain MRI Images

- Developed and implemented a robust 3D Convolutional Neural Network (CNN) algorithm that automates the assessment of image quality for skull-stripped brain MRI scans.
- Demonstrated promising outcomes, highlighting the success of the implemented 3D CNN architecture in achieving robust results for image quality assessment.

#### Rating Predictions from reviews given to products in online markets

- Implemented and fine-tuned aspect-based analysis models, leveraging CNN, RNN, LSTM, and BERT, resulting in a significant 15% accuracy improvement in product review analysis.
- Empowered stakeholders in informed decision-making by providing nuanced insights into product aspects, enabling targeted improvements based on detailed analysis and enhancing overall customer satisfaction.

#### End-to-End Machine Learning Project on Amazon SageMaker

- Executed end-to-end machine learning projects, encompassing data preparation, model training, and deployment for optimal results.
- Ensured perfection in the machine learning lifecycle, from refining datasets stored in S3 to meticulous API testing in Postman, contributing to high-quality and reliable ML solutions.

#### Fine Tuning Language Models with Custom Data

- Utilized a pre-trained language model (LLaMA) as a foundation, conducting fine-tuning on customer and agent conversation data to enhance summarization capabilities with superior accuracy.
- Achieved a 15% improvement in model accuracy through meticulous fine-tuning on custom data, significantly boosting its effectiveness in summarizing conversations.

#### Time Series Sales Forecasting and Accuracy Enhancement using Machine Learning

- Led the development of a time series forecasting model for future sales, utilizing diverse machine learning algorithms such as LSTM, 1D CNN, and GRU.
- Achieved a notable 15% increase in model accuracy through expertly conducted hyperparameter tuning and optimization techniques.

### EDUCATION

#### Clemson University

Clemson, USA

Master of Science in Computer Science

08/22 - present

- GPA:3.83/4

#### Lovely Professional University

Punjab, India

Bachelor of Technology in Computer Science and Engineering

08/18 - 05/22

- GPA:8.31/10