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.
- Engineered automated ML data pipelines for predictive modeling, reducing data processing time by 30% and supporting the deployment of 5+ predictive models in cloud environments.

Data Analyst Intern — **Secunderabad, India**
Maxwell Computer Solutions | Excel, Python, Tableau, SQL, AWS — 05/22-08/22

- Identified and automated analytics processes for user sales data, increasing the efficiency of data analysis by 20% and contributing to a 10% uplift in marketing campaign effectiveness based on improved KPIs.
- Developed interactive data visualizations using 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

Machine Learning and AI: Deep Learning, Supervised, Unsupervised Machine Learning, Natural Language Processing(NLP), Large Language Models.

Libraries: NumPy, Pandas, PySpark, Apache Spark, PyTorch, TensorFlow, Scikit-Learn.

Cloud Technologies: AWS (EC2, Lambda, SageMaker), Google Cloud, Azure.

Programming: Python, Java, C++, C#, R programming.

Data Analysis: SQL, Spark SQL, Statistical Analysis, Hypothesis Testing, Regression Analysis.

Data Visualization: Tableau, Power BI, D3, Plotly, Matplotlib, Seaborn.

PROJECTS

Fine Tuning Large Language Models(LLM) with Custom Data

- Enhanced summarization accuracy of customer and agent conversations by 40% through fine-tuning a pre-trained(LLaMA) model using the LoRA framework.
- Utilized the LoRA framework to fine-tune the large language model, significantly boosting its effectiveness in processing and summarizing complex conversations.

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 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

- Designed an MLOp pipeline using Amazon SageMaker for image classification, encompassing data preparation, model training, hyperparameter tuning, endpoint creation, and API integration.
- Leveraged AWS services like S3 for data storage, SageMaker for training and deployment, and API Gateway for creating a secure endpoint.

Quality Evaluation of Skull-Stripped Brain MRI Images

- Developed a 3D Convolutional Neural Network (CNN) algorithm to assess image quality in skull-stripped brain MRI scans.
- Achieved a promising 95% accuracy in classifying MRI scan image quality, demonstrating the effectiveness of the 3D CNN architecture.

EDUCATION

Clemson University — **Clemson, USA**
Master of Science in Computer Science — 08/22 - present

- GPA:3.88/4

Lovely Professional University — **Punjab, India**
Bachelor of Technology in Computer Science and Engineering — 08/18 - 05/22

- GPA:3.7/4