Shriranjan Patil

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EDUCATION

New York University — New York City, NY
Masters of Science in Computer Science — *09/24 - 05/26*

Manipal University Jaipur — Jaipur, IN
Bachelor of Technology in Data Science and Engineering, GPA: 3.6 — *09/20 - 06/24*
- *Relevant Coursework:* Data Structures, Algorithms, Object Oriented Programming, Operating Systems, Statistics, Finance and Econometrics, Linear Algebra, Probability, Machine Learning, Deep Learning, Computer Vision, Natural Language Processing, and Artificial Intelligence

EXPERIENCE

Support Engineer Intern — 09/23 - 07/24
SAP India — *Remote, IN*
- Migrated a scheduler from Apache Airflow to Azure Databricks, reducing OCR processing time for new contracts by over 50% through implementing threading and job queuing mechanisms.
- Developed and maintained a comprehensive database with over 100 variables critical for automation of contract generation, enhancing the efficiency and accuracy of the contract creation process.
- Resolved over 50 support tickets related to contract generation, collaborated with cross-functional teams to address common issues, and reduced recurring problems by 30%, ensuring seamless operations and improved customer satisfaction.

Software Developer Intern — 05/23 - 07/23
AVEVA — *Hyderabad, IN*
- Designed a Python and VBA-based software tool to automate data collection from Excel and conversion into XML files, reducing manual conversion time by 30 hours per conversion.
- Collaborated with the XR Software team to integrate the XML files as a bridge between DYNSIM and XR, streamlining the process and eliminating the need for manual XML input by 80%.

Undergraduate Researcher — 10/21 - 08/22
Manipal University Jaipur — *Jaipur, IN*
- Implemented CNN models (VGG16, DenseNet, MobileNet) to achieve a 95% accuracy rate in classifying COVID-19 and Pneumonia from X-ray images, processing over 4500 images. Successfully improved accuracy from 93% to 95% through ensemble learning techniques.
- Developed a real-time LSTM model with 85% accuracy for Amazon and Microsoft stock prediction. Applied feature engineering techniques to improve prediction accuracy by 10%.

TECHNICAL SKILLS

Programming Languages: Python, C, Java, R, SQL, HTML/CSS
Tools: Django, Flask, REST API, Postman, Apache Airflow, Docker, Azure Databricks, Kubernetes, Git
Operating Systems: Windows, Linux
Machine Learning: Pandas, Numpy, TensorFlow, Scikit-Learn, XGBoost, Matplotlib, NLTK
Deep Learning: Keras, OpenCV, PyTorch, HuggingFace, Transformers, Transfer Learing, CNN, RNN
Data Visualization: Tableau, Excel

PROJECTS

Fake News Detection using BERT
- Trained and classified 3700 news articles from a multilingual Hindi and English news dataset using the highly accurate multilingual BERT model, achieving a 99% accuracy rate.
- Deployed the model with Flask to enable third-party usage of the results, increasing the utilization rate by 75%.
- Optimized hyperparameters for the training process, reducing training time by 15%.

Real-Time Gender Detection
- Designed a real-time gender detection system with a 96% accuracy rate using the OpenCV library.
- Incorporated the Xception pre-trained model to significantly reduce training time by 10x and improve model performance.
- Conducted 1,000+ tests and generated detailed reports, recording an average precision of 0.96 across all experiments to ensure system accuracy.

PUBLICATIONS

- **Long Short-Term Memory driven Recurrent Neural Network for Real-Time Stock Monitoring and Prediction**, *Lecture Notes in Electrical Engineering, Springer* — *05/23*
- **COVID-19 and Pneumonia Classification Using Ensembling with Transfer Learning**, *IEEE Xplore* — *10/22*