

Shriranjan Patil

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EDUCATION

New York University

New York City, NY

Masters of Science in Computer Science

09/24 - 05/26

- *Relevant Coursework:* Machine Learning, Database Systems and Software Engineering

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, 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 Learning, 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