PAREEKSHIT REDDY GADDAM

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Available: May - December 2022

EDUCATION

Northeastern University, Khoury College of Computer Sciences, Boston, MA **May 2023 - Present**
Candidate for Master of Science, Data Science **GPA: 4.0 /4.0**

- Relevant Coursework: Supervised Machine Learning, Data Management and Processing, Deep Learning, Data Mining, Unsupervised Machine Learning, Computer Vision, Natural Language processing

Jawaharlal Nehru Technological University, Hyderabad, India **July 2016 - May 2020**
Bachelor of Technology, Civil Engineering **GPA: 8.68 / 10.0**

- Relevant Coursework: Linear Algebra, Statistics and Probability, Programming, Calculus I & II

SKILLS

- **Languages:** Python, R, Java, MATLAB, SQL
- **Tools:** OpenCV, Keras, TensorFlow, Excel, NLTK, Git, Octave, Microsoft Office
- **Technical Skills:** Data Mining, Data Visualization, Data Analysis, Machine Learning, Deep Learning, NLP, and CV
- **Libraries:** Pandas, NumPy, Scikit-learn, Seaborn, Matplotlib, PyTorch, Natural Language Processing (NLTK)

EXPERIENCE

AMAZON, Hyderabad, India
Investigation Specialist – Defect Prevention & Reconciliation **Aug 2020 - Aug 2021**

- Launched the reconciliation tool that allowed cost reduction, reduced the front-line associate's investigation time by **23.47%** and improved the overall seller experience by automating the process using **Machine Learning**.
- Saved **$5million+** for the company in the form of refunds by denying fraudulent claims with critical thinking and effective implementation of the operational procedures
- Mentored and trained associates to reach targets, reduced their graduation time by **46.92%**
- Worked with stakeholders to drive process improvements that impacted internal and external customers in the **ecommerce** sector through reduced investigation time and improved new hire experience.

U&I NGO, Volunteer, Hyderabad, India **April 2019 - Sept 2021**

- Taught English to Underprivileged Kids and established 2 teaching centers in Hyderabad in 2021
- The Driver of the 2021 Fundraiser Campaign, raised 10 million+ rupees

PROJECTS

CONVERSION RATE PREDICTION FOR AN E-COMMERCE WEBSITE (SKILLS: Neural Networks) Oct 2021 - Dec 2021

- Predicted purchase rate of a product by customer for an eCommerce website called Mercado libre from 160k+ Observations
- Developed **XGBoost**, **LightGBM** and **Neural Networks** with optimization techniques like Stratified data splitting, Stratified K-fold, Optimal Threshold, Bayesian Optimization, Model Stacking and Stepwise selection and achieved AUC of 0.8176
- Awarded best executed Project in the class of 60 for the course DS 5220: Supervised Machine Learning

PREDICTIVE ANALYSIS OF HOTEL BOOKING DATA (SKILLS: ARIMA, LGBM, SVC, XGBoost) Oct 2021 - Dec 2021

- Implemented **ARIMA (Autoregressive Integrated Moving Average)** modeling to predict number of bookings for a hotel from, 180k+ bookings from countries around the world and achieved a MAPE of 0.239
- Predicted that customers from Germany are likely to ask for a high number of special requests and achieved an RMSE of 0.169
- Predicted whether the customer would cancel a booking with models **SVC**, **LGBM**, **XGBoost** and achieved an AUC score of 0.943

REAL TIME FACIAL EXPRESSION RECOGNITION ON VIDEO AND IMAGE DATA (SKILLS: CNN, FLASK, KERAS) **Nov 2020 - Jan 2021**

- Built **Convolutional Neural Network** (CNN) in **Keras** to recognize facial expressions on videos and achieved an accuracy of 84%
- Implemented Spatial Batch Normalization, Padding, Max Pooling, Dropout and Adam Optimizer to optimize the model
- Deployed the trained model to a web interface with **Flask** and applied the model to real-time video streams and image data

SENTIMENT ANALYSIS ON IMDB DATASET (SKILLS: NLTK, Random Forest, Scikit Learn) Oct 2020 - Dec 2020

- Represented text data using, bag-of-words model and transformed the provided sample sentences into sparse feature vectors
- Performed feature extraction with the **Natural Language Toolkit** (NLTK) and applied scikit-learn's Tf-idf Transformer to convert sample text into a vector of tf-idf values.
- Built **logistic regression classifier**, **random forest**, **SVC** and **LGBM** using **Scikit Learn** and achieved an AUC score of 0.863