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| **PRAJVAL BAVI** | | |
| **UNC CHARLOTTE** | | |
| Seeking **Full-Time Opportunity** in **Machine Learning/Data Science.** | | |
| University Terrace Drive, Charlotte, NC | [**pbavi@uncc.edu**](mailto:pbavi@uncc.edu) | 980-474-0291 |

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| EDUCATION | |  |
| **University of North Carolina at Charlotte** | | Charlotte, NC |
| Master’s in Computer Science | | May 2019 |
| **University of Pune** | | Pune, India |
| Bachelor in Electronics and Telecommunications | | May 2013 |
| COURSEWORK | Machine Learning, Deep Learning for Computer Vision, Natural Language Processing, | |
|  | Computer Vision, Cloud Computing for Data Analysis, Intelligent Systems, Algorithms and Data Structure, Database Design. | |
| SKILLS | Python, R, C++, SQL, Linux, AWS, Keras, TensorFlow, PyTorch, NumPy, Pandas, OpenCV, NLTK, Spacy, Gensim, CoredNLP, Scikit-Learn, Spark, Hadoop. | |
| CERTIFICATIONS | Deep Learning Specialization (Coursera) | |

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| WORK EXPERIENCE |  |
| Graduate Teaching Assistant | Aug 2018 - Present |
| Graduate Research Assistant | Jan 2018 - May 2018 |
| **University of North Carolina at Charlotte** |  |
| * Submitted a paper “Deep Learning Based Urban Analytics Platform: Applications to Traffic Flow Modeling and Prediction” in MUD3 Workshop 2018 held in London. | |
| * Worked on Anomaly Detection. Currently exploring the use of Gating Networks in Meta Learning Shared Hierarchies in Reinforcement Learning. | |
| * Implemented a client-server model for customized 1-card Poker game for training RL Agent and deployed on Heroku. | |
| Data Science Intern |  |
| **Stock Snips. Inc, Pittsburgh, PA** | May 2018 - Aug 2018 |
| * Improved attribution of snippets in news article to a public company using NER, POS Tagging and Coref resolution to implement a new algorithm. | |
| * Implemented a heuristic based module to extract the public companies relevant to a news article improving the extraction of companies by a factor of 50%. | |
| * Optimized and improved performance of deduplication module for new articles by a factor of 10. | |
| * Forecasted the stock price using exponential smoothing of discrete time-series data having the stock news data. | |
| Senior Member of Technical Staff |  |
| **Mojo Networks, Pune, India** | Sept 2015 - July 2017 |
| * Designed and built statistical models and feature extraction systems for gaining insight into Access Point Performance and predict various parameters which have impact on performance using Pandas and NumPy. | |

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| ACADEMIC PROJECTS | |
| **Job Recommendation System** (*Python, Spark, NumPy, Pandas, NLTK*) | Nov 2018 – Dec 2018 |
| * Implemented Naïve Bayes, Logistic Regression, K-means in Spark for predicting salary and clustering jobs. | |
| * Built content-based recommendation system to find similar jobs using user’s resume and job description. | |
| **Autonomous Boat Vision System** (*Keras, TensorFlow, Python, NumPy*) | Sep 2018 – Oct 2018 |
| * Working with LaunchLKN, a Charlotte based startup to build real-time hand waving detection using pose estimation. | |
| * Achieved accuracy of **98%** and **F1 score of 99%** on KARD dataset. | |
| **Detecting Drowsiness in Drivers** (TensorFlow, Python, NumPy) | Aug 2018 – Present |
| * Trained Resnet-50 to classify the video using frame majority vote. Added LSTM layer to capture the temporal feature with **95%** accuracy on NTHU dataset. | |
| * Trained DCGAN to make more robust classifier for the same dataset (Currently Working). | |
| **Urban Analytics Platform** (Keras, Python, NumPy, Pandas, Matplotlib, Web scraping) | Feb 2018 – May 2018 |
| * Developed an end-to-end system for ingesting multiple data sources and processing them via deep neural network models (LSTM) to predictions ETA of traffic flow with **RMSE of 4.01**. | |
| * Wrote a web scrapper to collect data continuously from Twitter, Waze, OpenWeather and Charlotte City. Distributed and synchronized scrapping and collection process on multiple computers. | |
| **Insurance Fraud Detection** (Python, Scikit-learn, NumPy, Pandas, Seaborn, Matplotlib) | Jan 2018 – May 2018 |
| * Prototyped and tested predictive models for finding fraud claims submitted using hierarchical clustering. | |
| * Performed EDA using Matplotlib and Seaborn to find relevant trends and designed new features to increase the accuracy of the clustering of fraud claims. | |
| **Recommendation System for Documents** (Python, Scikit-learn, NumPy, Pandas) | Oct 2017 - Dec 2017 |
| * Built a recommender system to provide news suggestion (similar and surprising) to a user. | |
| * Used Topic modelling and Word Embeddings to train SVM & Random Forest (Scikit-learn) to classify documents. | |