Gurneet Chhabra

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EDUCATION

University of Rochester: GPA - 4.0/4.0   **Rochester, New York**
Master of Science, Data Science   *Anticipated Dec 2022*
Coursework: Computational Statistics, Data Mining, Time Series Analysis

Medicaps University: GPA - *8.96/10*   **Indore, India**
Bachelor of Technology, Major: Computer Science & Engineering   *July 2020*
- Coursework: Cloud Computing, Artificial Intelligence, Database Management System, Data Structures
- Presented the Research Paper "AN AUTOMATED RESUME SCREENING SYSTEM USING NATURAL LANGUAGE PROCESSING AND SIMILARITY" in a Conference.

TECHNICAL SKILLS

Programming Languages (Rated out of 5): Python (5), C (4), SQL (4), R (3)
Data Science: NumPy, Pandas, Matplotlib, Seaborn, Scikit-Learn, Keras, TensorFlow, PyTorch, OpenCV, Tableau
Frameworks: Google Cloud Platform, Microsoft Azure, AWS, Heroku, Spark, Databricks

INTERNSHIP EXPERIENCE

iNeuron Intelligence PVT. LTD.   **Bangalore, India**
Data Science Intern   *May 2021–July 2021*
- Led a team of 4 for face mask detection project specifically on Indian society and achieved a 95% validation accuracy for face mask detection with potential to be installed on-site.
- Implemented 3 detection pipelines applying SSD MobileNet V2, YOLO v3 and state of the art YOLO v5 on a self-created dataset of ~1500 images for real-time mask detection
- Converted the YOLO v5 model to TensorFlow Lite model to increase its inference performance by 3% on embedded devices as it is less resource demanding.

Techachiever Engineering   **Indore, India**
Data Science Intern   *June 2019–August 2019*
- Built a Custom-based Deep Neural Network sentiment analysis model, that can be used to understand sentiment from public tweets, which could be used as a factor while making a buy/ sell decision of securities. Able to achieve accuracy of 89%.
- Designed a Deep Learning based predictive model to forecast future stock prices. Trained a stacked LSTM Time Series framework which outperformed the old implementation developed Ridge Regression by 14%.
- Developed a customer segmentation system to define marketing strategy using machine learning. Performed Dimensionality reduction PCA and later used clustering to segment the customers.

Ypsilon IT Solutions   **Indore, India**
Data Analyst Intern   *June 2018–August 2018*
- Performed correlation and regression analysis that quantified the relationship between different attributes of the data
- Scraped data from company's resources and internet with python scripts, saving more than 75% time.
- Designed Tableau dashboards and addressed them to the logistics heads. Found insights to increase the firm revenue by 5.7% in the next quarter.

INDEPENDENT PROJECTS

Wafer Fault Detection
- Built a machine learning based classification methodology to predict the quality of wafer sensors.
- Divided the data into clusters applying **K-Means Clustering,** and each Cluster was trained on different machine learning algorithms and finally **Random Forest Classifier** or **XGBoost Classifier** was selected depending on the accuracy or AUC score of the classifier.
- **Hyperparameter Tuning** was performed on both the classifiers using **RandomizedSearchCV** which gave an **AUC score** of **87%.** Successfully deployed the model on **AWS Elastic Beanstalk** using **Flask.**

Understanding COVID-19 Vaccine Hesitancy Among Healthcare Practitioners
- Scrapped data from social media platform using API and applied lemmatization, stemming and other NLP tasks for preprocessing the data. Classified the comments using BERT.
- Used LDA for topic modelling and LIWC to perform opinion mining and sentiment analysis.