MOHIT MISHRA

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Experience

Amadeus Software Labs　　　　　　　　　　　　　　　　　　　　　　　**Feb 2023 – Present**
Software Development Engineer

- Optimized job performance and addressed escalated production issues through code enhancements.
- Developed innovative functional improvements, streamlining processes, and reducing the need for manual work.
- Implemented AngularJS to revamp the Credit Card Tokenization System.
- Integrated REST API for secure and efficient credit card data handling.
- Implemented validation procedures using Jasmine and Karma for thorough testing and issue detection.
- Contributed to developing microservices using Quarkus for optimized performance and scalability.

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Machine Learning Engineer　　　　　　　　　　　　　　　　　　　　　　　　　*Remote*

* Analyzed factors contributing to homelessness in Texas and proposed a solution for homelessness. Motivated 2 persons to continue their journey in the machine learning field.
* Improved accuracy of the model from 82 percent to 91 percent in the career recommendation model.
* Led the team of 4 engineers, guiding them towards the successful creation of the ML prediction model for resource allocation purposes to predict and help those at risk of eviction/homeless in Texas (like Chronic Homeless AI mode(CHAI)).
* Formulated an AutoML pipeline to automatically search for the best neural model for Natural Language Processing tasks. Collaborated with a team of 7 people in using edge computing and cloud development for model deployment and management.
* Took the charge of developing an image augmentation pipeline for school image datasets, working overtime to ensure that it got completed by the deadline.

Technical Skills

* **Programming:** Python (NumPy, Pandas, Scikit-learn, Matplotlib), C++, C, Java, JavaScript
* **Data Science:** Tensorflow, Keras, Algorithms, NLTK, Spark ML, Git, MLOps. MLFlow, Data Wrangling, Data Science
* **Data Analytics:** ETL, Databases, Data Gathering, Analysis, Data Visualization, MySQL, Tableau, Data Analysis
* **Cloud Technologies:** Amazon Web Services (AWS), Google Cloud (GCP), Azure, Modelling
* **Other :** Unit Testing, CI/CD Pipeline, Unix/Linux, Creativity, Probability and Statistics, Quantitative Analysis,Strong Communication Skills, Research, Problem Solver, Independent, HTML, CSS, MySQL, Git, Pytorch, Distributed Systems, Image Classification, Object Detection, Emotion Recognition, OpenCV, Image Processing, Docker, Information Retrieval, TCP/IP, Quarkus, Microservies, Docker, Terraform, API, Helm

Projects

Tea Leaf Quality Predictor | Techs: ***Python, Flask, Keras, Tensorflow, AWS, Computer Vision***
· Developed a **detector** and **classifier** model which will detect the correct image and classify its quality.
· Developed **Flask API** and used it for the deployment into **Microsoft Azure**.

Homelessness in Texas | Techs: ***Python, ML Algorithms, Data Analysis, Data Mining*** | **App Link**
· Working with the data, we learned quite a bit. A few examples are: using the displacement and gentrification dataset, our team was able to complete probability testing that resulted in finding the probability of actions being targeted at homelessness in Texas(8.5given the action was targeted at homelessness(26.08were able to take COVID data and work with the data to predict fatalities and achieve a baseline MAE of (+/-)53.09 fatalities.
· We were able to compare how COVID-19 has affected Texas and how the effects of COVID-19 have attributed to the other socio-economic factors of homelessness and homelessness rates.
· Many valuable insights were seen by the team. We were able to create and test some null hypotheses using probability testing to see how actions taken by acting forces were targeted at homelessness and whether that action was directly or indirectly targeted; whether that be local government, NGOs, NPOs, etc.

Education

Lovely Professional University　　　　　　　　　　　　　　　　　　　**July 2019 – June 2023**
B.Tech in Computer Science Engineering　　　　　　　　　　　　　　　　　　　*Punjab, India*