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Palaksh Vardhan Rungta

EDUCATION

University of California - San Diego (UCSD)   SEPT 2018 - PRESENT
- *Bachelor of Science* in Cognitive Science with Machine Learning. **Class of 2022**, **GPA**: 3.69 / 4.0
- **Courses**: OOP, Data Structures, Machine Learning, DS, Probability, Linear Algebra, Discrete Math

WORK EXPERIENCE

Price.com, *Software Engineering Intern*   JUN 2021 - SEPT 2021
- Explored multiple API services to increase the **data quality** of product identifiers. This improved the **coverage** of crucial fields by **83%** which improved the product matching **model's accuracy by 9%.**
- **Lead** the design and implementation of a **Python microservice** to extract **80%** of the outdated product URLs from a **MySQL** database and update them into the new format.
- Constructed the testing framework of the existing **data pipeline** independently. Tested over **350** retailers and found bugs in **50** of them which helped save **thousands** of faulty product data.
- Investigated and integrated third party **API** services into existing pipelines to add **100% coverage** of **best-selling products** to a **MongoDB** database to **drive up consumer interest and sales**.
- Scripted a retailer **commission data extraction** function for the pipeline to **prevent making a loss**.
- **Technical Stack**: Python, MongoDB, MySQL, Airflow, Linux, Git.

COVID 19 Deep Learning Lab, *Machine Learning Intern*   APR 2021 - SEPT 2021
- Took the **ownership** to run weekly predictions of COVID-19 death rates using Professor Rose Yu's UCSD-NEU **deep learning** model and submit it to the **CDC**. tinyurl.com/7cjdnpv6
- Utilized high computing **supercomputer clusters** to execute **Slurm** jobs to run **Python** scripts.
- **Initiated** the **prediction of hospitalization rates** along with death rates using the model.

FinBit.io, *Data Science Intern*   OCT 2020 - DEC 2020
- Implemented various algorithms in **Python** to recognize and group duplicate users with a **98% success rate** to **avoid false entries** and **reduce the runtime drastically**.
- Took the **lead** to successfully automate the extraction of **location** data from **manual bank entries** for **47%** of the users for better field coverage using **Python**.
- Additionally used bank transaction data to predict the **salary** for **73%** of users successfully.

TECHNICAL PROJECTS

Safe N' Sound: A Computer Vision Solution   SD Hacks 19
- Our team created a **computer vision** (**OpenCV)** application aimed at **reducing distractions while driving** by first recognizing the face of the driver from their co-passengers and then alerting them if they are distracted based on their degree of eye movement with respect to the road. git.io/JBahz

Bar Locations and DUI cases   2020
- Examined the correlation between Bar locations and DUI accidents in San Diego using ML techniques
- Performed **Geo-Spatial analysis**, **Bootstrapping**, and used various **APIs** and **Machine Learning** algorithms such as **SVM** and **K-Nearest Neighbors** (KNN) to explore the correlation. git.io/JBahL
- **Technical Stack**: Python, Sci-kit learn, Pandas, Geopandas, Git.

SKILLS

Python, Java, C++, SQL, MongoDB, Flask, HTML, CSS, Airflow, Tensorflow, Sci-kit Learn, Keras, Linux, Git
Machine Learning, Data Analysis, Backend Development, Deep Learning (CNN, RNN, GAN), Computer Vision.