SUNJANA RAMANA CHINTALA

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EDUCATION

COLUMBIA UNIVERSITY — **New York , NY**
***Master of Science, Electrical Engineering, (Specializing in Data-Driven Analysis)* , CGPA : 3.8 / 4.0** — **Exp Dec 2022**
Honor: Nikola Tesla Electrical Engineering Scholarship

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD — **Hyderabad , IN**
***B.Tech (Electrical Engineering) , MBA (Specializing in Marketing)* , GPA : 9.67 / 10.0**

SKILLS

- **Programming** - Python, R, SQL, C, HTML, CSS
- **Cloud Services** - Microsoft Azure Services - Azure Data Lake, Azure Databricks, Azure Data Factory, Azure SQL , Google Cloud Services - BigData, Compute, Storage & DataBases
- **Machine Learning Algorithms** - Linear Regression, Logistic Regression. SVM, K-Means, Random Forest, LSTM, CNN, RNN, Deep Neural Networks, Ensemble Learning, XGBoost

PROFESSIONAL EXPERIENCE

QBE INSURANCE — **New York, NY**
Data & Integration - Intern — **June 2022 --Present**

- Collaborating with Cloud Solution Architects and Data Platform Engineers in developing complex end-to-end Enterprise Solutions on Microsoft Azure platform to meet Insurance business needs

Task - API Data Extraction and Storage using Azure

- Built automated ETL analysis pipeline covering data sourcing from APIs, validation, aggregation, and storage for use in end deliverables; Migrating pre-constructed SAS scripts to Databricks using PySpark and SQL
- Constructing AI & ML architectures with ability to support DevOps migration from DEV to PROD env

Task - Machine Learning for Chart of Accounts

- Built a Random Forest Model with 99% accuracy to determine the Key Performance Indicators(KPIs) in General Ledger Transactional Data with over 80000 records and 1000+ independent attributes

Task - Blockchain for Data Security (POC)

- Presented a novel BLOCKCHAIN Prototype as a Decentralized Cloud Security Solution to CIO
- Developed an interactive web-interface capable of deploying Blockchain Smart Contracts by facilitating transactions for Renters Insurance Customers ; operates on REACT, SOLIDITY , Web3 and GANACHE

ASK2.AI — **New York, NY**
Data Scientist & Student Consultant (INDUSTRY PROJECT) — **Jan 2022 - May 2022**

- Employed eXplainable Artificial Intelligence(XAI) methods LIME & SHAP on Financial Risk Assessment modules; Analyzed Customer Credit Risk portfolios and identified viable loan applications using ML

MACHINE LEARNING PROJECTS — Jan 2022 - May 2022

Search for a Connection between Energy Demand and Media Sentiments

- Forecasted Energy Usage consumption patterns in NY with Auto Regressive Moving Averages(ARIMA) model and detected Causal relationship with Twitter Sentiments using Natural Language Processing Techniques
- Link to the project -- https://github.com/sunjana2199/ML-Climate-Final-Project

Video Caption Generation Using Deep Learning & NLP

- Expanded scope of Image Captioning to Deep Video Understanding using TRECVID- VTT Dataset; Employed DL, Encoder-Decoder Architectures, Greedy & Beam Search Algorithms for Video to Text conversion
- Link to the project -- https://github.com/Sapphirine/video_caption_generation

Ranking US Stocks using Machine Learning based on Financial Ratios

- Built a Flask App that operates on a Random Forest Model to rate stocks based on 10 key financial risk assessment ratios; Collected live S&P 500 Stock Parameters Training Data using WebScraping Techniques
- Link to the project -- https://github.com/sunjana2199/Ranking-US-stocks-using-10-pointer-analysis

Youtube Trending Video Recommendation System

- Utilized Unsupervised LDA Mechanism to build a Content Based Recommendation System which calculates the highest probability scores and suggests the top 10 youtube videos based on Video Titles
- Link to the project -- https://github.com/sunjana2199/youtube_recommendation