CHANTHRIKA PALANISAMY

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OBJECTIVE

Graduate student in Data Science with expertise in **Python, R, SQL, and predictive modeling**. Self-motivated, collaborative, highly diligent, and open to learning new technologies. Actively looking for full time roles.

SKILLS

Programming Languages: Python (NumPy, matplotlib, pandas, SKlearn, seaborn, TensorFlow), R (dplyr, ggplot, tidyverse), SQL, JavaScript, databases.

Technical Skills: AWS, PowerBI, Tableau, MS Excel, MS PowerPoint, PostgreSQL, Git, GitHub, slack, G-suite.

Soft skills: Highly analytical, conceptual thinking, effective documentation skills, strong verbal and written communication.

Areas of expertise: Predictive modeling, data cleaning, data transformation, regression models, time series forecasting.

EDUCATION

UNIVERSITY OF COLORADO BOULDER   08/21-05/23

Master of Science in Data Science (CGPA: 3.98)

Relevant Course Work: Statistics, Deep Learning, Data Mining, Machine Learning, Cyber Security, Big Data Architecture, Information Visualization, Neural Networks

SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY   08/17-04/21

Bachelor of Technology in Information Technology (CGPA: 8.8/10)

Relevant Course Work: DBMS, Data Analytics, Data Structures, Design Analysis and Algorithms, R Programming, Business Intelligence, Computer Architecture

WORK EXPERIENCE

WOMEN LEADERS IN DATA AND AI / FUTURE TECHNOLOGIES – **Data Analyst Intern**   06/22-08/22

- Performed **ETL** and data cleaning to provide business with reliable data set.
- Visualized the revenue using **Excel** charts and **Python**.
- Worked with the finance team in analyzing the revenue of the organization using Python.
- Created a dashboard on PowerBI and reported business key performance indicators (KPIs).

HEXAWARE TECHNOLOGY-**Developer Intern**   01/21-07/21

- Received **"Best Technical Performer"** award for going the extra mile.
- Learnt and executed Agile methodologies throughout the internship.
- Managed team of other interns to successfully develop an end-to-end project on Bus booking management system.
- Developed a software for Bus Management system using JavaScript, SQL, **Java**.
- Performed **SQL querying** to retrieve, access, update and manipulate data from the database.
- Deployed in **AWS** cloud-based environment.

PROJECTS

Data Mining: Market Basket Analysis using Python   02/22-03/22

- Generated association rules for pairing the items in the basket (i.e. Instacart basket).
- Compared different algorithms based on their execution time.
- Optimized Apriori algorithm in two different approaches and handled scalability.

Big Data: Food Recommendation System using Python   02/22-04/22

- Developed a website that recommends top 5 foods to try within a selected location.
- Extracted the Yelp **API** to create an ML model using foodbert library in Python.
- Stored the output from the ML model in **MongoDB**.
- Used visual studios to build UX/UI design with map features implemented using HTML, CSS, and JavaScript.
- Connected front-end and the database using **flask.**
- Helped push the project to Docker containers and deploy it to **GCP (Google Cloud Platform).**

Advanced Analytics - Stock Price Prediction using Python   11/21-02/21

- Created **predictive models** for Closing price, Price per Earnings ratio, and Accumulation/Distribution ratio.
- Developed **time series forecasting model** for last two months of analysis and analyzed results using statistical techniques.
- Used web scraping to obtain additional information required for the model.
- Performed trend analysis using Arima model and **GLMs**.
- Created an alternative price prediction model using TensorFlow 2.

Effect of Natural Disasters on the Stock of Insurance Companies using R   09/21

- Figured out the reaction of financial markets, especially in insurance sector towards major disaster.
- Captured insurance company's movement of stock on day of disaster.
- Calculated cumulative movement of stock on different disaster beginning dates.

EXTRACURRICULAR ACTIVITIES

- Elected as an associative member of department of Information Technology.
- Served as **Inclusion & Diversity Chair of DaSSA (**Data Science Students Association) at UC Boulder.

CO-CURRICULAR ACTIVITIES

Web Application Firewall Evasion Techniques- IEEE conference ICASCCS 2020

- Published a paper describing evasion techniques on a website for understanding the privacy of data stored.