Sai Tara Kunduru

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EDUCATION

Master of Science -Data Science **Jan 2022 – Dec 2023**

- University of Maryland Baltimore County (UMBC)

-Relevant Course work- Python, Big Data, Machine Learning, Data base and architecture, Applied Statistics, Natural Language processing and R.

Bachelor of Engineering (Computer Science and Engineering) **June 2017 - June 2021**

- Geethanjali College of Engineering and Technology, India

-Relevant Course work- C, Java, Software Engineering, Database Management, Netcentric Programming (HTML, CSS, JavaScript), Computer Networks.

WORK EXPERIENCE

Data Analyst (Full Time) **August 2020- Dec 2021**

Fidelity Investments, India

- Cleaned and validated customer data in Excel and helped implement a new data warehouse process to integrate data from multiple sources into a centralized database.
- Conducted exploratory data analysis (EDA) on a large dataset of customer transactions using Python and Tableau, identifying trends and patterns in customer purchasing behavior that informed the development of target marketing campaigns.
- Collaborated with senior data scientists to build and validate predictive models for customer lifetime value (CLV) and customer segmentation, resulting in more accurate customer targeting and improved revenue growth.
- Researched industry best practices in data analytics and business intelligence, creating a report that informed senior leadership's strategic decisions for future data initiatives.

Data Analyst Intern **May 2020 –July 2020**

Accenture, India

- Assisted senior analysts in conducting basic machine learning tasks such as data preprocessing and model evaluation, learning foundational concepts in machine learning.
- Contributed to data management tasks including data entry, validation, profiling, and documentation, learning foundational data management skills.
- Gained experience in running basic SQL queries to extract data from databases, improving SQL querying skills and understanding of database structures.
- Supported data entry tasks, including entering and validating data in spreadsheets and databases, learning data entry and validation best practices.

ACADEMIC PROJECTS

- **Cryptocurrency Candlesticks** **May 2022**
  - Developed informative algorithmic trading strategies for cryptocurrency markets by implementing logistic regression and Naïve Bayes on crypto-related tweets, achieving over 90% prediction accuracy for market improvement.
  - Applied supervised classification on 853 transactions to identify entities in Bitcoin. The implementation returned 80% accuracy for more than 100 thousand unlabeled transactions.
  - Gained experience in working with cryptocurrency data, including data cleaning and feature engineering, resulting in improved data quality and model performance.
  - Improved technical skills in Python programming, data analysis, and machine learning by implementing supervised classification algorithms and trading strategies, gaining experience in software development workflows and best practices.

- **Loan Default** **Dec 2022**
  - Cleaned and preprocessed loan data, including missing value imputation, outlier removal, and feature scaling, resulting in improved data quality for model training and testing.

- Utilized data visualization techniques to explore relationships between loan features and loan defaults, identifying key predicators of loan default for model development.
- Conducted data cleaning and preprocessing on 5,000+ text records of event complaints; applied topic modeling and identified.

- **Hand Gestures Recognition and Voice Controlled Video Player** **January 2021**
  - Developed a hand gesture recognition and voice control model using OpenCV and PyAudio libraries, improving the user experience by allowing hands-free control of computer functions.
  - Conducted trajectory analysis of hand gestures to identify temporal dynamics, resulting in a 85% accuracy rate in recognizing hand gestures.
  - Utilized PyCharm as the primary development environment for the project, gaining experience in software development workflows and best practices.

TECHNICAL SKILLS

Programming Languages:	Python, C, SQL
Database:	MySQL, PostgreSQL, MongoDB, SQLite, Oracle
Web Development:	HTML, CSS, Stream lit.
Frameworks:	SciPy, Scikit-Learn, Keras, TensorFlow, Pandas, NumPy, Hadoop Map Reduce, PyTorch, Machine Learning, Clustering
Tools:	Eclipse, Spring tool suite, Maven, Jenkins, Databricks, Putty, IntelliJ, Jira, MySQL.

CERTIFCATIONS

Fundamentals of Accelerated Data Science with RAPIDS	2022
Python for Data Science and Machine Learning	2021
Overview of Data Visualization	2020