Chaithanya Sai Karne

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Education

University of Pennsylvania

Aug 2021 - May 2023

Master of Science in Engineering in Data Science

CGPA: 3.75/4.0

• Relevant Coursework: Applied Machine Learning, Statistics for Data Science, Deep Learning for Data Science, Programming (Python and Java), Big Data Analytics, Databases (Database Design), Computational Linguistics

Manipal Institute of Technology, Manipal, India

Jul 2016 - Jul 2020

Bachelor of Technology in Mechatronics Engineering; Minor Specialization in Data Science

CGPA: 4.0/4.0

Technical Skills

Languages: Python, Java, R, MATLAB, JavaScript

Database Technologies: SQL, MySQL, Oracle, MongoDB, Neo4j, DataGrip, Redshift, AWS RDS, Hadoop - HDFS,

Apache MapReduce, Hive, Google BigQuery

Cloud Technologies/Frameworks: PyTorch, Keras, Scikit-Learn, Apache Spark, Data Mining, Data Wrangling, NodeJS,

ReactJS, Git, Matplotlib, Seaborn, Pandas, LaTeX, Tableau, ETL, AWS - S3, Athena, SageMaker

Experience

Graduate Data Management Assistant

Jan 2023 - Present

The Wharton School, University of Pennsylvania

Philadelphia

Managed, explored and formulated research questions/summaries for 8 of 'The Wharton iWRDS' official datasets

Graduate Teaching Assistant

Sep 2022 - Present

University of Pennsylvania, for the 'Programming Languages and Techniques (CIT590)' course

Philadelphia

• Guided 100+ students by designing 5+ advanced Python & JAVA learning sessions, preparing, and grading exams

Graduate Technical Assistant

Sep 2022 - Dec 2022

Wharton Customer Analytics - Analytics Accelerator program, The Wharton School

Philadelphia

- Associated with Lowe's Companies, Inc., to identify their best offline products using Python based Machine Learning
- Collaborated with Align Technology to optimize the best marketing strategies for the product 'Itero' & maximize sales

Graduate Research Assistant

May 2022 - Aug 2022

ESG & Political Risk Research Lab, The Wharton School, University of Pennsylvania

Philadelphia

- Developed 20+ complex Python scripts & 30+ AWS Athena SQL queries for projects aimed at examining the influence of businesses on the social landscape by analyzing online news articles (GDELT data lake) of 260+ countries
- Analyzed over 100 million rows/articles using AWS S3, Athena SageMaker, devised 2 funded data pipelines by connecting location names in the articles' text to PRIO GRID geo cells, ran BERT model to visualize news articles' sentiments

Business Analyst

Jan 2020 - Jul 2020

MiQ Digital India (P) Ltd

Bangalore, India

- Assessed the impact of 10+ global advertising campaigns & formulated recommendations for digital spend optimization
- Set up 5+ automated analytical workflows by streamlined Data Engineering, Predictive Modeling for efficient ad spend
- Implemented customer clustering & classification, web analytics utilizing R, Python, SQL, Hive & Advanced Excel

Academic Projects

Weather Planner Application | AWS, DataGrip, NodeJS, ReactJS

Sep 2022 - Dec 2022

- Designed a fully functional web application that compares 2 cities' weather recommends future travel based on weather
- Created a own AWS RDS database backed with complex SQL queries using DataGrip for the application

Zomato Hotels Complete Data Analytics | Python, sklearn, Matplotlib, Seaborn, Folium

Oct 2022 - Nov 2022

Analyzed Zomato Indian restaurants & predicted good restaurants with 79%-84% accuracy using Random Forest, KNN

Fake News Predictor | Python, sklearn, NLP, NLTK, Vectorization

Oct 2022 - Nov 2022

• Developed a Python script with Bag of Words to predict fake news using Multinomial Naive Bayes with 90% accuracy

Supply Chain Analysis and Late Delivery Predictor | Puthon. Google Cloud Console

Mar 2022 - May 2022

Achieved accuracy of 85% using Random Forest, while predicting late delivery risk of orders of the firm DataCo Global

Masked Face Recognition | Python (CNN, OpenCV, Keras)

Oct 2021 - Dec 2021

• Coded a Python program to detect people's faces & names with masks properly & improperly worn with 65% accuracy

Publications

• "KCSNBShiny" and "KCSKNNShiny" R Packages: Developed using RStudio (R Shiny) applicable for predictive analysis, employing Naive Bayes k-nearest neighbors algorithms to predict any variable in categorical and numeric data, published and deployed onto CRAN (Comprehensive R Archive Network) in July 2019)