SILAS SWARNAKANTH KATI

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EDUCATION

UNIVERSITY OF MINNESOTA – TWIN CITIES, MN

Master of Science in Data Science

May 2023

Fall 2021: Data Mining, Principles of Database Systems, Applied Regression Analysis

Spring 2022: Machine Learning Fundamentals, Theory of Statistics, Architecture and Implementation of DBMS

GITAM UNIVERSITY, AP, INDIA

Bachelor of Technology in Computer Science and Engineering

July 2020

GPA: 3.96/4.00

Relevant coursework: Data Mining, DBMS, Cloud Computing, Information Retrieval Systems,

Probability and Statistics, Discrete Mathematics

PROFESSIONAL EXPERIENCE

BRANDONLINE.IO (Mumbai, India)

Oct. 2020 - May 2021

Data Science – Intern

- Involved in a Full Stack project intended to sync databases and provide real-time analytics across clients using FastAPI.
- Evaluated processes for productivity gains and provided actionable insights and sales growth areas to clients on PowerBI.
- Single-handedly set up production infrastructure on AWS maintaining low costs, high scalability, and resiliency.
- Developed an extensive and user-friendly CLI using Boto3 for the Full Stack project.

IIT BOMBAY (Mumbai, India)

Sept. 2020 - Nov. 2020

Software Project Management - Intern

- Managed planning, structure, development, and release of Akshar Anveshini project.
- Streamlined tasks to provide easier and more efficient workflows for the teams and the professor.
- Reduced the project duration by **2 months** by improving structure and communication across teams and departments.
- Were able to reach **200 books** a month efficiency.

ACADEMIC PROJECT EXPERIENCE

MARKET BASKET ANALYSIS FOR TARGETED SALES | Github Link

Fall 2021

Course project | University of Minnesota – Twin Cities

- Implemented Apriori and FP-Growth algorithms to analyze customer spending pattern.
- Performed customer segmentation using K-means and Hierarchical Clustering along with PCA reduction.
- Achieved optimal results for user product recommendation using various classification models.

IMAGE DATABASE ARCHITECTURES | Github Link

Fall 2021

Course project | University of Minnesota – Twin Cities

- Evaluated performance of queries on image search using various DB designs.
- Analyzed effect of indexing like B-Trees, Bitmapping on DB tables and their efficiencies.

IMAGE CAPTION GENERATOR | Github Link

Nov. 2019 - May 2020

Major project | GITAM

- Combined **Xception CNN** with **LSTM** to make an end-to-end model.
- Trained the model on Flickr8k dataset achieving around ~90% accuracy.

ACTIVITY RECOGNITION USING KERAS | Github Link

July 2019 - Nov. 2019

Minor project | GITAM

- Trained the **ResNet50** model with images scraped from the web.
- Employed rolling prediction averaging to avoid prediction flickering.

SKILLS

Cloud: AWS, Digital Ocean, Heroku **Frameworks:** TensorFlow, Keras, FastAPI

Languages: Python, R, C, C++ Tools: Excel, JupyterNB, Power BI, Tableau, Trello

Databases: PostgreSQL, MySQL Analytics: Statistics, Regressions, Feature Selections, Clustering, Forecasting, SVMs

CERTIFICATIONS

AWS Certified Solutions Architect Associate (Pursuing).

AWS CloudFormation Master Class.

Complete Backend (API) Development

Ultimate MYSQL Bootcamp

Mathematics for Machine Learning

LEADERSHIP

Marketing Intern at the University of Minnesota Dining Services.

- Have been Campus Ambassadors for HackerEarth, GeeksforGeeks, Swiggy, and Dell.
- Headed the Graphic Design team of CSI GITAM student branch.
- Was a member of a Social Welfare Organisation called Vivaann.