CHAITHANYA SUDHA GUDIPATI

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EDUCATION

NORTHEASTERN UNIVERSITY, Boston, MA — Expected Graduation: May2024
Master of Science in Data Analytics Engineering — **GPA: 3.98/4.00**
Relevant Courses: Data Mining, Computation and Visualization, Data Management for Analytics, Cloud Computing

MS Ramaiah Institute of Technology, Bangalore, India — Graduated: May 2019
Bachelor of Engineering in Electronics and Communications — **GPA: 9.05/10**
Relevant Courses: Statistics and Probability, Linear Algebra, Python, Data Structures and Algorithms

TECHNICAL SKILLS

Databases and Cloud Technologies: MYSQL, PostgreSQL, MongoDB, AWS
Programming Languages: Python, R, SQL, C, JavaScript
Tools & Editors: Power BI**,** Tableau, Flourish, Data Wrapper, Git, MS Excel, VLOOKUP, Pivot Tables
Packages and Frameworks: NumPy, Pandas, Matplotlib, Seaborn, Scikit-Learn, TensorFlow, NLTK, RShiny, ggplot, Plotly
Skills: Data Management, Data Visualization, Data Analysis, Data Modelling (Regression, Classification, Clustering,PCA, Text Analysis and Time Series Analysis), Statistical Modelling and Data Mining Techniques, Trend Analysis, Predictive Analysis, A/B testing, NLP

PROFESSIONAL EXPERIENCE

Tata Elxsi, Bangalore — September 2019-August 2022
ML Engineer

- Designed **Profitability and Propensity models** using unsupervised machine learning techniques resulting in the acquisition of **8M** customers.
- Developed **DBSCAN** clustering model for customer segmentation, contributing **16%** rise in Customer Lifetime Value.
- Optimized model to increase recall from **82% to 93.4%** by pre-processing data, tuning hyper parameters, and prevented overfitting.
- Fine-tuned **stored procedures** and SQL requests to ensure seamless data retrieval from approximate **1M** records.
- Presented customized **KPI's** to stakeholders by analyzing e-commerce data of 10,000 customers with **SQL** and **Tableau**.
- Designed various UI features for an OTT application that generated revenue of **10M** in team of 10.

Bharat Sanchar Nigam Limited, Anantapur — January 2019-April 2019
 Planning Intern

- Identified customer segments to target using K-means clustering, translating data into decision-ready insights that potentially led to 25k customers.

ACADEMIC PROJECTS

MLOps pipeline for Airbnb Price Prediction | Python **|** AWS SageMaker | CI/CD | Time Series Analysis
- Forecasted Airbnb price with RMSE **4.8** using CRISP-DM method including predictive modelling and time series analysis.
- Built end-to-end MLOps CI/CD pipeline on AWS **SageMake**r,streamlining data processing and XGBoost model deployment.

Sentiment Analysis on Hotel Review Data | Python | NLTK | Scikit-Learn
- Analyzed and processed reviews of hotel data and implemented sentiment intensity analyzer from **vader** to obtain positive, negative words and sentiment score.
- Classified using Random Forest Classifier and created **AUC-ROC** plots with AUC of **0.88**.

Yelp Restaurant Recommendation System | Python | NLTK | Clustering | Content based filtering
- Leveraged Yelp reviews and ratings data to build recommendation system with **77%** precision, exploring graph neural networks.
- Optimized model performance by **5%** by tuning hyperparameters for collaborative filtering and content based (NLP) models.

Movie Recommendation System | Python | Streamlit | Docker | Kubernetes
- Implemented an end-to-end content-based recommendation engine by scraping data and designed front-end web app using **streamlit** and deployed the containerized app using **Kubernetes**.

AWARDS & LEADERSHIP

- Won Bravo Award for showcasing values like **"Collaboration", "Innovation", "Persistence" & "Customer First"** performance at Tata Elxsi, Bangalore.
- Served as a **Team Leader** at National Service Scheme and led unit of **50**+ volunteers to provide unbiased community service.