

VARSHA SINGANNAGARI

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SUMMARY

- Master's in Computer Science with expertise in Data Engineering, NLP, Machine Learning, Python, SQL, and Azure.
- Developed predictive models, data pipelines, and performed data analyses through academic projects.
- Known for problem-solving, attention to detail, and a passion for actionable data insights.

TECHNICAL SKILLS

Languages: Python, SQL, C

Frameworks: Pandas, Numpy, TensorFlow, Keras, Scikit-Learn, Matplotlib, Seaborn, Huggingface

Databases: MySQL, PostgreSQL, MongoDB

Data Analysis: Data cleaning, Data Modelling, Data Wrangling, Data warehousing, ETL, Clustering, Forecasting, Data Quality, Data Integration, Exploratory Data Analysis (EDA), Data Preprocessing, Data Manipulation

Machine Learning: Regression, Decision Tree, KNN, SVM, Random Forest, K-Means, Statistics (Hypothesis testing, ANOVA), A/B Testing, NLP, Time Series Analysis

Cloud Computing: Azure (Databricks, Data Factory, Blob storage, Azure Data Lake Storage (ADLS) Gen2)

Data Visualization Tools: Tableau, MS Excel, Power BI

Operating Systems: Windows, LINUX, MAC

EDUCATION

Master of Science in Computer Science, University of Wisconsin- Milwaukee

May 2024

Coursework: Machine Learning, Data Structures and Algorithms, Software Development Lifecycle, Discrete

Mathematics, Natural Language Processing, Algorithm Design and Analysis, Image Processing, Operating Systems

GPA: 3.365/4.0

Bachelor of Electrical and Electronics Engineering, GNITS, JNTUH

-2021

INTERNSHIP

Summer Internship at Smart-Bridge Education Services Pvt.Ltd

-2020

- Acquired knowledge of machine learning and deep learning concepts using Python.
- I have done the project "Analysis of Amazon Cell Phone Reviews" in which I worked on the sentiment analysis of the reviews on Amazon, by applying machine learning and deep learning methods. The merit certificate received recorded 9 out of 10 on the skill index.

PROJECTS

Credit Card Fraud Detection

-2024

- Developed Fraud Detection Model using SMOTE for Class Imbalance, Achieved ROC-AUC of 0.98 with 0.92 precision, 0.88 recall.
- Model performance improved the use of pipelines including GridSearchCV. SGDClassifier, RandomForest, and Logistic Regression. Feature selection and significant preprocessing improved even further in that direction.
- Technologies: Python, Jupyter, Anaconda, Machine Learning, Data Visualization, Scikit-Learn, TensorFlow, Numpy, Pandas, ML Classifiers, Statistical Modelling

Customer Segmentation

-2023

- Used pivot tables to extract the most significant information from the data after it had been cleaned and analyzed in Excel. The top-selling products and favorite channels of purchase were underlined with a view to provide Potent visualizations.
- Designed an information-rich customer segmentation dashboard to support insights that can be put to work in targeting more precise marketing and sales efforts.
- Technologies: Excel, Pivot Tables, Charts

Analysis of Amazon Cell Phone Reviews

-2020

- Developed a high-accuracy sentiment analysis system for the reviews of Amazon mobile phones, using Python libraries and deep learning approaches to further tune the model performance.
- Designed a web-based platform using HTML and Flask where users can input their reviews to be automatically analyzed for sentiment, ensuring a seamless user experience and reliably accurate results.
- Technologies: Python, Numpy, Pandas, HTML, Anaconda, Jupyter, Machine Learning, Deep Learning, Spyder.

TEACHING ASSISTANT

Girls Who Code

-2023 - 2024

- Staunchly served as a Teaching Assistant for the Girls Who Code program, which empowers young women in technology. Guided and instructed students to improve their understanding of the Python programming language.

CERTIFICATIONS

- Azure Fundamentals (Microsoft)
- DevOps Foundations: Lean and Agile (Linkedin)

EXTRA CURRICULAR

Accenture Nordics Consultant Job Simulation on Forage

-2024

- Completed a job simulation involving a hypothetical Healthcare client on how to improve their mobile app.
- Reviewed a client brief and identified the most crucial priorities for the project.
- Analyzed varied data sources to make decisions about UX changes.
- Managed a project issue with the client and helped to prioritize long term initiatives.