Swaranjali Jadhav

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EDUCATION

NC State University, Raleigh, NC August 2023 - May 2025
Master of Computer Science GPA: 3.6
Coursework: Design and Analysis of Algorithms, Software Engineering, Database Management System, Foundations of Data Science, Neural Networks and Deep Learning

SIES Graduate School of Technology, Navi Mumbai, India August 2019 - May 2023
Bachelor of Engineering in Informational Technology GPA: 9.75/10
Coursework: Data Structures and Algorithms, Data Science and Business Intelligence, Cloud Computing

SKILLS

- **Languages**: Python, C++, C, HTML, CSS, Node.js, JavaScript, PHP, C#, R
- **Databases and Operating Systems:** MySQL, PostgreSQL, MongoDB, Windows
- **Tools and Framework:** Git, Tableau, Visual Studio, PowerBI, Excel, Bootstrap, ReactJS, Node, Flask, .Net, Numpy, ScikitLearn, Pandas, Scipy, TensorFlow, PyTorch

EXPERIENCE

Data Science Intern, SIES Graduate School of Technology, India June 2022 - August 2022

- Collaborated to gain accurate & insightful prediction of various comments to interpret and investigate the index of toxicity on different social media sites to achieve an accuracy of 89%.
- Designed and facilitated the deployment of a toxic comment analyzer website using Heroku, and reduced page load time by 14% through content compression and optimization.
- Assisted in the research and analysis of various cutting-edge NLP techniques and models to build more efficient and accurate systems.

Data Analytics Intern, SmartKnower, India June 2021 - August 2021

- Analyzed data and performed Web Scrapping utilizing Python to extract and analyze data from different websites leading to the acquisition of a comprehensive dataset comprising 23,000 values, increasing the set of data points by 8%.
- Engaged in data preprocessing and facilitated predictive modeling, analysis, and feature scaling to optimize accuracy and increase recall by 5%.
- Developed a responsive web application using HTML, CSS, Python, and Flask, while utilizing various Machine Learning algorithms to enable data-driven solutions and advanced decision-making that improves data reliability.

PROJECTS

Real-Time News Analyzer

- Streamlined operations by conceptualizing and implementing a web portal powered by **Python** and **natural language processing**, leading to a 15% reduction in manual workload.
- Conducted **cross-validation** utilizing Machine Learning algorithms to achieve an initial accuracy rate of 89% and fine-tuned **hyper-parameters** resulting in an enhanced accuracy range of 91-93%.
- Integrated a real-time news classification system, increasing accessibility by 12% and improving data-driven decision-making.

Health Assessment System

- Designed and developed a responsive site by employing **HTML, CSS, and Python** to create an innovative platform for disease prognosis prediction and utilized a combination of **machine learning** techniques, including SVM, Random Forest, and KNN, to build predictive models for disease diagnosis.
- Conducted rigorous training and testing of machine learning models, resulting in consistently high accuracy rates ranging from 92% to 95%.

Sentiment Analyzer

- Developed a sentiment analysis project to include analysis of comments on Twitter, Facebook, Live-audio Analysis, audio-analysis, and included bilingual text-analysis in Spanish with an accuracy of about 90%.
- Improved the GUI of the existing system to make navigation easier, made use of Python, HTML, CSS, and **TensorFlow**.

Loan Approval Prediction

- Created a web-application by making use of Python to accurately predict loan approval for different banks.
- Performed **EDA, Data Analysis** and used Machine Learning Algorithms for predictions with an accuracy of 93%

ACHIEVEMENTS & EXTRACURRICULAR

North Carolina State University: Awarded 1st prize in Diamond Hacks Hackathon 2024 organized by WiCS
SIES Graduate School of Technology: Led a team of 4 to rank 2nd in the Cognition'22 project competition in the IT department
IEEE 2023 4th International Conference for Emerging Technology (INCET): Published a paper on 'Real Time News Analysis using Natural Language Processing'