Deep Mehta

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Technical Skills and Tools

- Python
- Java
- SQL
- Neural Networks
- Deep Learning
- Machine learning
- MATLAB
- Data Mining
- Data Visualization
- NLP
- Statistics
- Git
- HTML
- CSS
- C/C++
- PowerBi
- Tableau
- Excel
- R
- AWS

Experience

Intern, SAKEC, Mumbai, India
July 2021 - August 2021

- Led a team of developers to implement machine learning algorithms for collaborative and content-based filtering in the course recommendation app, and optimized the algorithms to provide the most relevant and accurate course recommendations.
- Preprocessed and cleaned multiple datasets, utilized various libraries in Python for data processing, including Pandas and NumPy.
- Developed a web interface using HTML, CSS, and Python's web framework Flask to provide a user-friendly experience for users to interact with the course recommendation app.
- Collaborated with a team of developers to implement machine learning algorithms for collaborative and content-based filtering and optimized the algorithms to provide the most relevant and accurate course recommendations.

Intern, Digital Infrared Thermography, Mumbai/Pune, India
October 2020 - June 2022

- Developed software for the diagnostic application of digital infrared thermography to detect anomalies in breasts using thermal images, image processing techniques, and Artificial Neural Networks. Worked with a team of researchers and medical professionals to design and implement machine-learning algorithms for breast anomaly detection in thermal images.
- Utilized MATLAB's image processing toolbox for preprocessing thermal images and developed custom Python scripts for the same.
- Co-author to the successful publication of a book chapter on Applied Intelligence for Medical Diagnosing.

Projects

- Completed **10+** small individual projects on a variety of topics, including rain prediction and cancer detection, utilizing a variety of data analysis and deep learning techniques, such as RNNs, CNNs, decision trees, and regression models to analyze and interpret data.
- Conducted extensive data analysis and visualization using libraries in Python such as Pandas, NumPy, and Matplotlib to gain insights into each project, identify trends/patterns, and make data-driven decisions.
- Developed a capstone project that demonstrated mastery of data analysis and machine learning techniques, highlighting the ability to apply advanced statistical and analytical methods to real-world problems.

Education

M.S: Data Science - Rochester Institute of Technology, Rochester, New York **(GPA 3.9)** May 2024

- **Coursework**: Neural Networks, SQL, Java, Applied Data Science, Statistics

B.E: Computer Engineering - University of Mumbai, Mumbai, Maharashtra **(GPA 3.44)** June 2022

- **Coursework:** NLP, Data Structures and Algorithms, Object-Oriented Programming and Design, Database Systems, Artificial Intelligence, and Machine Learning
- **Leadership / Extracurricular:** Volunteered for IEEE SAKEC in various events such as blood donation campaigns and workshops for students. Co-Head of Events for SAKEC Technical Festival responsible for organizing schedules, weekly meetings, and coordinating with faculty heads.
- **Certifications:** Google Data Analytics, Machine Learning, Deep Learning, Python, C, SQL