ABRAAR PATEL

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EDUCATION

B.S in Computer Science, University of Houston — December 2023
GPA: 3.98
Relevant Coursework: : Programming and Data Structures, Algorithms and Data Complexities, Software Engineering, Software Design, Database Systems, Data Science I, Data Science II, Statistics and Sciences, Discrete Mathematics, Linear Algebra.

TECHNICAL SKILLS

Languages	Python, C++, C#, HTML, CSS, JavaScript, SQL, PHP, R
Frameworks	Node.js, React.js, Express.js, Knex.js, Jest
Developer Tools	VSCode, Visual Studio, Git, GitHub, Tableau, Microsoft Office, LaTeX
Databases	MongoDB
Libararies	NumPy, Pandas, Matplotlib, SciKit-Learn, SciPy, Tensorflow, Keras, OpenCV

PROJECTS

Fuel Delivery Web Application | *Node.js, React,js, Express.js, MySQL, Knex.js, Jest, IstanbulJS* — January 2023 - April 2023

- Teamed up with three peers to develop a full-stack fuel delivery app using Node.js, allowing clients to request and buy fuel.
- Developed the frontend with React.js, ensuring a user-friendly and visually appealing interface.
- Implemented backend JSON API routing with Express.js.
- Led database integration with Knex.js and conducted unit testing and code coverage analysis using Jest and IstanbulJS.

Currency Exchange Rate Calculator | *HTML, CSS, JavaScript* — December 2022 - January 2023

- Developed a user-friendly currency exchange rate calculator utilizing HTML, CSS, and JavaScript.
- Enabled real-time currency conversion, API integration, and intuitive user interface design.
- Successfully optimized the application's performance, resulting seamless user experience.

Detection of Lung Cancer | *Tensorflow, Keras, NumPpy, Pandas, Plotly* — August 2022- December 2022

- Led three peers in training deep learning models to classify lung cancer from chest CT-Scan images using Tensorflow and Keras.
- Employed convolutional neural networks and transfer learning models for precise lung cancer prediction.
- Conducted data preprocessing and visualization with NumPy, Pandas, and Plotly.
- Attained **85%** accuracy in lung cancer classification, with transfer learning models potentially advancing early diagnosis and treatment.

Google Play Store Applications Analysis | *NumPy, Pandas, Matplotlib, Plotly, Scikit-Learn* — March 2022 - May 2022

- Collaborated with two peers to train four machine learning models for Google Playstore app installs and popularity prediction.
- Analyzed data and optimized the machine learning models using NumPy, Pandas, Matplotlib, Plotly and SciKit-Learn libraries.
- Presented insights for informed app enhancements and marketing strategies, driving improved user engagement and downloads.

LEADERSHIP AND ACTIVITIES

Outreach Coordinator | Cougars of Data Science — August 2023 - December 2023

- Organized and managed outreach events and programs to promote the organization's mission.
- Engaged with the community and built connections through various events and programs.
- Crafted outreach strategies to boost visibility, attract participants, and enhance organization's impact.

Team Leader | Rice Datathon — January 2023

- Led a dynamic team in creating in-depth data visualizations for US breast cancer treatment facility analysis.
- Analysed 2019 Census datasets to identify gaps in mammography coverage.
- Built a linear regression machine learning model by predicting the population per mammogram facility for each state by 2025.