

# 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.

## SKILLS

**Programming Languages:** Python, C++, C#, HTML, CSS, JavaScript, SQL, PHP, R

**Programming Frameworks:** Node.js, React.js, Express.js, Knex.js, Jest

**Programming Libraries:** NumPy, Pandas, Matplotlib, SciKit-Learn, SciPy, Tensorflow, Keras, OpenCV

**Computer Software:** Microsoft Office, Outlook, Anaconda, Jupyter Notebook

**Developer Tools:** VSCode, Visual Studio, Git, GitHub, PyCharm, NetBeans, LaTeX

**Database Systems:** MongoDB

**Data Analysis and Visualization Tools:** Tableau

**Professional Competencies:** Teamwork, Adaptability, Problem Solving, Attention to Detail, Time Management, Task Management

## PROJECTS

### Fuel Delivery Web Application | *Node.js, React.js, Express.js, MySQL, Knex.js, Jest, IstanbulJS*

January 2023 - May 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, Numpy, 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.