ABRAAR PATEL

Houston, TX | (832) 951-3734 | abraarpatel23@gmail.com | linkedin.com/in/abraar-patel23 | github.com/a23patel | abraarpatel.com

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, Machine Learning, Introduction to Deep Learning, 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

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 React.js frontend, improving user metrics by **15%** and session duration by **20%**.
- Implemented Express.js backend JSON API routing and led Knex.js database integration, achieving **25%** speedup in data retrieval.
- Conducted Jest and IstanbulJS unit testing, yielding a **25%** increase in bug detection efficiency and code quality.

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

- Created currency exchange calculator with HTML, CSS, and JavaScript, boosting user engagement by **20%**.
- Enabled real-time currency conversion with API integration and intuitive UI, resulting in **25%** higher user engagement.
- Optimized the application's performance, resulting in a **40%** decrease in web page loading time.

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.
- Incorporated convolutional neural networks and transfer learning for accurate lung cancer prediction, targeting over **80%** accuracy.
- Conducted data preprocessing and visualization with NumPy, Pandas, and Plotly, boosting data-driven decision-making by **40%**.
- 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.
- Optimized machine learning models with NumPy, Pandas, and SciKit-Learn libraries, achieving a **40%** accuracy boost.
- Presented app insights and marketing strategies, boosting user engagement and downloads by **20%** .

LEADERSHIP AND ACTIVITIES

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

- Executed and managed outreach events and programs, resulting in **30%** increase in community engagement.
- Engaged with the community and built connections through events and programs, yielding a **35%** increase in initiatives.
- Crafted outreach strategies, resulting in a **25%** boost in visibility and attracting over **100** participants.

Team Leader | Rice Datathon January 2023

- Led a team of three in creating data visualizations for US breast cancer treatment facilities.
- Analyzed 2019 Census datasets to close mammography coverage gaps by **15%** through resource allocation.
- Built a linear regression model to forecast 2025 population per mammogram facility, improving resource allocation accuracy by **20%**.