Rohan Mathur

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Skills

Programming Languages (Java | JavaScript | C++ | Python) | **Database** (SQL | MySQL | MongoDB) | **Software Development** (Git | Flask | Spring Boot | DevOps | React.js | Node.js | React Native | Docker | AWS | Postgres | REST API | microservices | Kubernetes | Software Testing | Agile Development) | **Design and Modelling Tools** (UML | AutoCAD | MATLAB | Draw.io | Figma) | **Other Skills** (DBMS | OOP | Data Structures | Algorithms | Artificial Intelligence | Machine Learning | Android Development)

Professional Experience

Indian Oil Corporation, *Software Engineering & ML intern* May 2022 – Aug 2022

- Built a machine learning-based GUI application that achieved 97% accuracy in predicting whether industrial machines would fail under the given set of parameters.
- Utilized Python libraries, including Tkinter, NumPy, Pandas, Matplotlib, Seaborn, and Scikit-learn for model development and MySQL database.

Projects

Agile Scrum Simulator Web Application, *React.js, Spring Boot, MySQL, Git, Agile Development*

- Collaborated with a team of four members to develop a Scrum simulator, which gives the user an experience of the Scrum process via simulation.
- Web application enabling users to select user stories for a sprint session based on their assigned role.

Delivery Management System, *Python, Tkinter, Pycharm, MySQL, numpy, pandas, matplotlib*

- Designed and prepared a robust delivery tracking application, streamlining metadata storage and management.
- This empowered customers to track their projects effortlessly, leading to a 40% reduction in customer support inquiries.
- Customer can view the status of their shipped items. They can view the details like est. Delivery time, item name, etc.

Glaucoma detection model using Deep Learning, *Google Colab, Python, Keras, TensorFlow, PyTorch*

- Created a Deep Learning model for detecting Glaucoma from provided digital retinal images from 3 databases.
- Implemented hybrid deep learning models, resulting in a 3% improvement in glaucoma detection accuracy from 92% to 95% compared to previous models.

Breast Cancer Detection Using Artificial Intelligence, *Transfer Leraning, Support Vector Machines,*

- Conducted a research study with a team of 3 members to explore how various AI models detected breast cancer from the screening images and observed their accuracy.
- Designed a Machine Learning algorithm that resulted in a 20% efficiency improvement.

Space Exploraton Website, *HTML, CSS (Tailwind CSS), JavaScript, PHP, MySQL, WampServer*

- Worked with a team of two members to develop an interactive space exploration website. Added features sourced from API calls, resulting in a 20% reduction in page load time.
- The website provides comprehensive information on the solar system, planets, comets, asteroids, and various celestial phenomena in outer space.

Education

Masters of Science, Software Engineering, *Arizona State University* Aug 2023 – May 2025
Tempe, United States

Bachelors of Engineering, Computer Engineering, Jul 2019 – May 2023 | Mumbai, India
NMIMS University