Tushar Mistry

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Education

• **Bachelor of Technology in Computer Science and Engineering** *2022-26*
  Vellore Institution of Technology Bhopal University, Bhopal, M.P. CGPA: 8.46

• **Higher Secondary School Certification Class 12th** *2021-22*
  CBSE, Central Public School, Kharakua, New Bhupalpura, Udaipur **77.4 %**

• **Secondary School Certification Class 10th** *2019-20*
  CBSE, Central Academy Senior Secondary School, Sector 3, Udaipur **81.8 %**

Project Experience

DockLearner: Education Technology Mobile Application *November 2024 - January 2025*

• Used **Flutter, Dart, HTTP, HIVE DB, Firebase-Auth, Cloud Firestore.**
• Developed a modern, intuitive education app using Flutter to enhance user learning experiences.
• Implemented **Secure role-based authentication** for "Student" and "Course Organiser" using **Firebase Auth**.
• Integrated **YouTube Data API v3**, enforcing a **structured learning approach** via Media Video seek restrictions.
• Optimized **Firestore Database** for efficient storage and real-time course progress tracking.
• Refactored **State Management Techniques**, **improving app responsiveness and scalability** for Mobile use.

MProvMeds: General Medical Checkup Flutter ML App *January 2024 - May 2024*

• Used **Flutter, Dart, API, HTTP, HIVE-DB, Machine Learning, Python, Flask.**
• Designed and **lead a Team of 5** for a mobile health application leveraging **Flask-based API** for disease prediction.
• Built and trained a **probability-based Machine Learning mode** for **multi-disease prediction**.
• Optimized model accuracy to **94% using enhanced Confusion Matrix and parameter tuning**.
• Contrived **Flutter-Hive** for structured data persistence and efficient local storage.
• Integrated **APIs for real-time prediction** and **seamless backend communication**.

General Disease Prediction Machine Learning System *August 2023 - October 2023*

• Used **Python, Machine Learning, Sci-kit Learn, Data Visualization, Tkinter.**
• Worked with team of 5 for an **interactive Python-based GUI application** for User Experience.
• Conducted exploratory data analysis using **correlation graphs and supervised learning models**.
• Effectuated **SVM, Random Forest, KNN** model for Ensembling of **Voting Classifier models** for accurate predictions.
• Enhanced **model performance**, achieving **93% accuracy** through revamped feature selection.
• Designed an **intuitive and user-friendly interface** to enhance system usability.

Technical Skills

Languages: Proficient in Dart, YAML, Python, Java.
Libraries : Experienced with Dart Pub, Flutter Dev Packages, Java and Python Libraries.
Web Development Tools: Skilled in using Flask, and Python for web support in Backend Development.
Cloud/Databases: Experienced with Relational Databases, MySQL, Also NoSQl Databases such as Firebase - Firestore No SQL Database.
Relevant Coursework: Completed courses in Data Structures & Algorithms, Operating Systems, Computer Network, Object-Oriented Programming, Database Management Systems, and Software Engineering.

Soft Skills

Skills: Lateral Thinking, Self-Learning, Presentation, Creativity, Patience, Leadership, Critical thinking.

Areas of Interest

Significantly focused on: Cross Platform Mobile Application Development, AI and ML, Backend Deployment and RESTfull API Development using Python Tools.

Licenses & certifications

• **Certification, Flutter, Part 01 to 09** from *LinkedIn Learn* *December 2022 - March 2023*

• **Certification, Machine Learning with Python** from *Coursera - IBM* *January 2023 - April 2023*

• **Certification, Google Cloud Big Data and Machine Learning Fundamentals** *January 2023 - April 2023*

• **Certification, Oracle JAVA Certified Foundations Associate** from *Oracle University* *July 2025*