Tushar Mistry

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EDUCATION

•**Bachelor of Technology in Computer Science and Engineering**	*2022-26*
Vellore Institution of Technology Bhopal University, Bhopal	CGPA: 8.66
•**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 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.

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 model 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, Tkinter, Data Visualization.**
- Worked with team of 5 for an interactive Python-based GUI application for disease prediction.
- Conducted exploratory data analysis using correlation graphs and supervised learning models.
- Effectuated SVM, Random Forest, KNN, and 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, C++, Python, HTML, CSS, Java, JavaScript.
Libraries : Experienced with Dart Pub, Flutter Dev Packages, C++ STL, Java, and Python Libraries.
Web Development Tools: Skilled in using Flask, Flutter, and JavaScript for web development.
Frameworks: Knowledgeable in Flutter, Cloud Computing, TensorFlow, and BigQuery.
Cloud/Databases: Experienced with Relational Databases ,specifically MySQL and others such as Firebase - FirestoreDB , Google Cloud.
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: Flutter Mobile Application Development, AI and ML, Web Design and Backend Deployment.

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, Data Structures in C** from *Great Learning*	*July 2023*