KRISHNA CHAMARTHY

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PROFILE

Computer Science student with experience in **Full-Stack Development** and **Machine Learning**. Proficient in building web applications, backend systems, and AI models. Enjoys developing efficient solutions and working on technical projects.

EDUCATION

MIT World Peace University, Pune - B.Tech CSE — AUG 2022 - MAY 2026
Bachelor of Technology in Computer Science
CGPA: 8.77/10
MIT WPU Merit Scholarship holder for 3 consecutive years
12th - The Orbis School, Pune - **91.2% - 2022**
10th - MIT VGS CBSE, Pune - **96.4% - 2020**

SKILLS

Technical Skills:

- **Languages:** Python, C++, C, HTML, CSS, JavaScript, SQL
- **Frameworks & Libraries:** React, Node.js, Flask, Pandas, NumPy, Scikit-learn
- **Databases:** MongoDB, MySQL, PostgreSQL
- **Tools & Platforms:** Git, Docker, Streamlit, Postman, AWS
- **Machine Learning:** Data Preprocessing, Model Training, Predictive Analytics, Data Visualization
- **Web Development:** RESTful APIs, Responsive Design, Server-Side Rendering, API Integration

Soft Skills: Clear technical communication, Effective teamwork, Time management, Quick adaptability, Attention to detail

CODING PROFILE

- Achieved **1500+ rating** on **LeetCode**, solving over **240 problems.**
- Active in **Codeforces**, solving over **85 problems.**
- Achieved **5 Star Rating** in **Python** and **C++** in **Hackerrank**.

PROJECTS

Exoplanet Detection and Classification - Python (Published RBUCON2025) — **GitHub, Paper**

- Expanded a machine learning-based system to detect and classify exoplanets using data from the **Kepler Space Telescope**, improving **accuracy** to **99.5%,** enabling more reliable detection of habitable exoplanets
- Optimized the model through cross-validation and hyperparameter tuning, **reducing false positives** by **15%**.

College Management System - React, Node.js, MongoDB — **GitHub**

- Developed a comprehensive **college management system** for student and faculty management, improving administrative efficiency.
- Utilized **React** for a dynamic user interface, **Node.js** for server-side logic, and **MongoDB** for data storage, to streamline operations.
- Implemented role-based **authentication**, **dynamic dashboards**, and **automated report generation.**

CurrExch - Currency Converter - Python, Dockerfile, Streamlit — **GitHub**

- Developed a real-time currency converter using **Python** and **Streamlit**, featuring a user-friendly dashboard that supports **150+ currencies** and integrates **live exchange rate APIs** for up-to-date values.
- Added **historical trend analysis** and **AI-based predictive modeling** accurate upto **87%**, to forecast future exchange rates, enhancing financial decision-making.

Path Finding Algorithm Visualizer - React (JS), CSS, HTML **GitHub**

- Created an interactive tool to **visualize pathfinding algorithms** (Dijkstra's, A*, BFS, DFS) using **React** for **real-time rendering** and **dynamic UI**. Achieved smooth animations at **60 FPS**.
- Provided **educational insights** by displaying the number of explored nodes and algorithm efficiency, improving understanding of algorithm efficiency.

Personal Portfolio - React (JS), CSS, HTML **GitHub**

- Designed a **clean** and **interactive** layout for the portfolio, implementing React Router for **seamless navigation** and ensuring **compatibility** across various screen sizes with responsive design techniques.
- Created a dynamic Projects Section with **6+ projects**, to display detailed descriptions, images, and links to **live demos** and **GitHub repositories**, while maintaining a **user-friendly interface** throughout.

CERTIFICATES

- **Machine Learning A-Z: AI, Python** - Udemy (Nov 2024) **- Certificate**
- **100 Days of Code: The Complete Python Pro Bootcamp** - Udemy (Jun 2024) **- Certificate**
- **The Complete 2023 Web Development Bootcamp** - Udemy (May 2024) **- Certificate**