RACHIT UDASEEN

COMPUTER SCIENCE STUDENT | AI & ML ENGINEER | FULL-STACK DEVELOPER

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Computer Science student with a strong leadership mindset, adept at managing projects under pressure. Experienced in AI/ML and Development, building scalable solutions, and mentoring teams to drive innovation. Passionate about solving real-world problems through data-driven approaches.

TECHNICAL SKILLS

- Programming Languages: Python, C, C++, Javascript, Java
- AI/ML Frameworks: TensorFlow, PyTorch, Sklearn
- Data Science: Pandas, NumPy, OpenCV, Matplotlib
- DevOps & Cloud: AWS S3, Firebase, Docker, Kubernetes
- Databases: SQL, PostgreSQL, MongoDB, DynamoDB, HDFS, Hadoop, Hive
- Frontend: HTML, CSS, React
- Backend: Nodejs, Express, Flask
- Version Control: Git, GitHub

PROFESSIONAL EXPERIENCE

Fullstack Developer | WorqHat   **Jan 2024 - Feb 2024**
- Built a no-code workspace for a CMS, enabling seamless content updates.
- Developed key features and guided a team of **10** developers across frontend and backend.
- Enabled live content updates via an admin interface, reducing time required in making changes

KEY ACHIEVEMENTS

- **Best Python Mini Project (2024) :** Ranked **#1** group out of **600** students for developing an educational game that helps students learn Python interactively.
- **HackMITWPU (2024) :** **3rd** Place | Recognized for outstanding performance in the competition.
- **Smart India Hackathon (2023 and 2024):** Cleared University Level, ranking among the Top **50** teams in the university.
- **Academic Excellence – 10th Standard (2020)** | Ranked in the Top **3%** of my school.

EDUCATION

Bachelor of Technology (B.Tech) in Computer Science & Engineering   **Oct 2022 - Jun 2026**
Maharashtra Institute of Technology WPU (MITWPU), **8.42**
- Academic Excellence: Ranked **#5** in Second Year, among **600** students

Class 11th and 12th - [HSC]   **Apr 2020 - Jun 2022**
Pace Junior College, Andheri

Class 10th – [ICSE]   **Jun 2007 - Jun 2020**
Lilavatibai Podar School, Santacruz, **94.20%**

EXTRA-CURRICULARS

DSA Mentor   **Aug 2024 - Oct 2024**
- **Computer Society of India, MITWPU**
- Taught DSA to a club of **100+** members.
- Organized **weekly** sessions, guiding members through complex DSA topics, and providing hands-on problem-solving practice to strengthen their coding skills.

Teacher of Mathematics   **Jun 2023 - Jul 2023**
- I.D.E.A. Foundation, Warje, Pune
- Taught Mathematics to a class of **20+** Underprivileged Students.

Technical Team Member   **Aug 2023 - Present**
- Computer Society of India, MITWPU

PROJECTS

Symbolic Regression using Hybrid Genetic Algorithm & Neural Network
- **Tech Stack**: Python, NumPy, Pandas, TensorFlow, Scikit-learn, DEAP
- Built a hybrid GA-NN model that formulates interpretable mathematical equations for numerical datasets, automating EDA & feature selection.
- Applied to the UCI Machine Learning Wine Quality dataset, achieving a low RMSE of **(0.54).**

"Pywiz": Gamified Python Learning
- **Tech Stack:** Python, Flask, Pygame, React, Tailwind, MongoDB
- Developed a gamified Python learning tool using Pygame with **10** levels, featuring a progressive learning system, **3** difficulty ratings, and an achievement system.
- Built an admin dashboard with React.js & Flask, enabling content management, player progress tracking, and performance analytics for improved user engagement.

"WebInt": Web User Behavioral Analysis
- **Tech Stack:** Python, Scrapy, Beautiful Soup, Scikit-learn, NLTK, Flask, JavaScript, React, MongoDB
- Created a browser extension that enhances online data privacy awareness by tracking and analyzing user interactions across the web.
- Utilized web scraping techniques to collect user data, which was processed using machine learning and natural language processing to uncover behavioral patterns and insights.
- Built a secure web platform for users to visualize and understand their digital footprint, enhancing transparency.

"Career Compass": Career Recommendation Platform
- **Tech Stack:** Python, ml-knn, NLTK, Node, Express, React, Tailwind CSS, MongoDB
- Built a personalized recommendation engine using NLP, mapping users to **100+** career options and **1,000+** job roles, extracted from a **1M+** job listing dataset.
- Designed a web application that guides users toward fulfilling careers through **2** interactive tests for aptitude and personality assessment.
- Enabled users to explore career paths, track progress, and make informed decisions with an intuitive, data-driven interface.

"Study Vault": Centralized College Resource Portal
- **Tech Stack:** React js, Tailwind, Node, Express, MongoDB, AWS S3
- Built a centralized study resource platform that streamlined content organization, making academic materials easily accessible for teachers and students.
- Designed a scalable and secure system with efficient data management to support multi-user access without performance bottlenecks.

E-commerce Website
- **Tech Stack:** PHP, HTML, CSS, SQL
- Built an eCommerce site with product listings, user authentication, and an admin dashboard.

Self-aggregating dustbin using IOT
- **Tech Stack:** Arduino Uno, C++, IoT, Ultrasonic Sensors, Servo Motor, MQTT
- Implemented an automated waste segregation system to classify waste into dry and wet categories.

File Search Utility
- **Tech Stack:** C++, File handling, Regex
- Built a command-line search tool that scans multiple files in a directory, efficiently locating and displaying all occurrences of a user-specified phrase.

ADDITIONAL INFORMATION

- **Languages:** English, Hindi, Marathi
- **Hobbies :** Reading, Chess, Sports, Guitar, Competitive Programming