RUPESH JADHAV

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SUMMARY

Full Stack Developer with hands-on experience in building scalable web applications using the MERN stack and PHP. Knowledgeable in blockchain development, AI/ML, and IoT systems, with exposure to developing decentralized apps (dApps), smart contracts, and data-driven applications. Passionate about delivering secure, performant solutions across the tech stack.

EDUCATION

- **St. John College of Engineering and Management, Palghar, Maharashtra** **June 2025**
  Bachelor of Technology in Artificial Intelligence and Machine Learning
  CGPA: 8.4
- **APMS College of Science, Commerce and Arts, Talasari, Maharashtra** **March 2021**
  HSC - 79.83%
- **Madhyamik Vidyalaya, Talasari, Maharashtra** **March 2019**
  SSC - 84.80%

INTERNSHIPS

- **Udyog Suvidha Kendra** **Dec 2024 – Present**
  Role: Full Stack Developer (Blockchain + MERN + PHP)
  - Worked on a PHP and MERN based admin portal for form management and internal dashboard tools, handling user data, transaction logs, and user queries.
  - Developed a Raydium-like decentralized platform on Solana using Rust and the Anchor framework, with React and Solana-Web3.js for frontend integration and wallet support.
- **Rigel Infotech** **June 2024 – July 2024**
  Role: Full Stack Development Intern (MERN)
  - Completed hands-on training in full stack web development using the MERN stack (MongoDB, Express.js, React.js, Node.js).
  - Developed dynamic web applications and RESTful APIs, focusing on component-based UI with React and backend services with Node.js and Express. Integrated MongoDB for data storage and implemented CRUD operations to manage application data.

SKILLS

- **Frontend:** HTML, CSS, JavaScript, React.js, Tailwind CSS, Bootstrap, TypeScript, Redux
- **Backend:** Node.js, Express.js, PHP, Laravel, RESTful APIs
- **Database:** MongoDB, MySQL
- **Blockchain:** Ethereum, Solana, Smart Contracts (Solidity, Rust), Web3.js, Ethers.js
- **AI/ML:** Python, Scikit-learn, Pandas, NumPy, TensorFlow, Keras, PyTorch, Matplotlib, Seaborn, OpenCV, NLP, NLTK, spaCy, Hugging Face Transformers, LLMs (e.g., GPT, BERT), Deep Learning, Model Deployment (Flask/FastAPI)
- **IoT:** Arduino, Embedded C, ESP32, SIM800L, Sensors Integration, Serial Communication, GSM-based Messaging, Real-time Monitoring
- **IDEs & Tools:** Git, GitHub, Postman, XAMPP, VS Code, Jupyter Notebook, Google Colab, Anaconda

- **Soft Skills:** Problem Solving, Critical Thinking, Analytical Mindset, Communication Skills, Collaboration and Teamwork, Adaptability, Curiosity and Continuous Learning, Time Management, Open-Mindedness

PROJECTS

- **AI Virtual Assistant (Rasa + NLP + Python)**
  Developed a Windows-based AI assistant using Rasa for conversational AI and NLP pipelines. Enabled voice-activated commands and intelligent task automation such as opening applications, searching the web, sending emails, and providing system updates. Integrated speech recognition, text-to-speech (TTS), and custom intent handling for a seamless interactive user experience.
- **PsycheCounselAI – AI Mental Health Chatbot (MERN + LLM)**
  Developed a mental health support web app using the MERN stack integrated with a large language model (LLM) to provide ChatGPT-like conversational therapy features. Designed to assist users with stress, anxiety, and emotional concerns through empathetic and intelligent dialogue. Implemented secure user authentication, session tracking, and a responsive chat interface.
- **Blockchain-Based Face Recognition System (Python, OpenCV, Rust, IPFS)**
  Developed a secure face recognition system integrated with blockchain for identity verification. Used OpenCV for face detection and recognition, while storing encrypted facial data hashes on the Solana blockchain via smart contracts. Implemented IPFS for decentralized image storage and ensured tamper-proof identity validation with blockchain immutability. This system can be applied to secure access control, KYC, and digital identity management.
- **IoT-Based Smart Energy Meter System (Arduino, Embedded C, SIM800L, Sensors)**
  Developed a standalone energy monitoring and automated billing system using Arduino programmed in Embedded C. Utilized current and voltage sensors to measure power consumption in real-time. Integrated SIM800L GSM module to send SMS alerts containing usage statistics and billing details directly to users. Enabled mobile-based payment and remote recharge functionality via SIM-based communication. Designed for areas with limited internet access, this system supports prepaid and postpaid billing models, providing an affordable, accessible solution for smart energy management in rural and semi-urban regions.

CERTIFICATIONS & COURSES

- **Full Stack Web Development Bootcamp**
- **Data Analysis using Python**
- **Solana Smart Contract Development with Anchor**
- **100 days of Machine Learning**
- **Fundamentals of Deep Learning**

ACHIEVEMENTS

- **2nd Place, MegaHack 2024** – Developed an IoT-based energy meter system with real-time analytics and automated billing system.
- **3rd Position, XZIBIT 2023** – IoT-based smart energy tracking and automated billing system.

POSITIONS OF RESPONSIBILITY

- **Core Member**, ASCAI AIML Student Club, 2023-2024
- **Joint Technical Head**, ISTE, 2023-2024
- **Lead Developer**, E-Club, 2023-2024

LANGUAGES

English , Hindi , Marathi