Akshat Yadav

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EDUCATION

VIT Bhopal University   Bhopal, MP
Bachelor of Technology in Computer Science and Engineering – CGPA: 8.55   *Nov 2022 – Present*

Maharana Pratap Education Centre   Kanpur, UP
Senior Secondary (12th) – 89%   *May 2021*

Maharana Pratap Education Centre   Kanpur, UP
High School (10th) – 96.6%   *Jul 2019*

TECHNICAL SKILLS

C++, JavaScript (ES6+), React.js, Node.js, Express.js, MongoDB, SQL, HTML5, CSS3, Tailwind CSS, Python, Flask, Fast API, RESTful APIs.

PROJECTS

PACER Quest | MERN Stack, JWT Auth, Performance Optimization   *Mar 2025*
  – Engineered full-stack flashcard and topic based quiz generation application serving students and educators based on React frontend and Node.js/Express REST API.
  – Architected MongoDB schemas with indexing, reducing query times by 40% for user progress tracking.
  – Secured application with JWT authentication implementing refresh tokens and protected routes.
  – Boosted rendering performance by 60% through React virtualization techniques for large datasets.

Crypto Hunter | MERN Stack   *Nov 2024*
  – Built cryptocurrency tracking app with real-time data for 100+ coins using React.js, Node.js, and MongoDB.
  – Implemented JWT authentication and portfolio management with CoinGecko API integration.
  – Optimized responsive design reducing load times by 40% across desktop and mobile platforms.

PocketFlow Tutorial Framework | Python, Flask, LLM APIs   *Aug 2023*
  – Established open-source framework converting LLM codebases into tutorials.
  – Innovated modular architecture supporting 5+ LLM frameworks, increasing compatibility by 70%.
  – Automated tutorial generation system producing learning resources form github.
  – Standardized documentation processes improving developer productivity and reducing support overhead.

EXTRACURRICULAR ACTIVITIES

Research Publications | Quantum Computing, Black Hole Physics
  – Published novel paper on "Information Paradox Resolution Through Quantum Geometry" with 200+ reads
  – Researched and authored comprehensive guide on "Quantum Computing: Foundations, Technologies, and Applications"

Open Source Contributions | GirlScript Summer of Code
  – Championed contributions to 10+ projects, delivering 1,000+ lines of optimized code
  – Resolved 15+ critical issues through strategic pull requests and code reviews

Technical Leadership | PI Mathematics Club, VIT Bhopal
  – Orchestrated coding competitions and math workshops engaging 100+ participants
  – Mentored 20+ junior students in advanced mathematics and algorithm design

Innovation enthusiast | Smart India Hackathon
  – Secured college finals placement, outperforming 150+ competing teams with innovative solutions.
  – Pioneered AI-powered questionnaire based mental health diagnostic app prototype with 85% accuracy

CERTIFICATIONS

MERN Stack Specialist – Ethnus | Architecture, Performance, Security   Apr 2025
Web Development Mastery – IBM/Coursera | Modern JavaScript, Responsive Design   Jun 2024