

Harsh Raj

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Professional Summary

B.Tech final year Computer Science Engineering student with hands-on experience in Machine Learning, Data Analysis, Natural Language Processing, and full-stack web development (MERN). Proven track record in building data-driven applications and leading campus technical initiatives. Strong motivation and curiosity to build innovative and analytical tech solutions.

Skills

Programming & Tools: Python, R, Java, JavaScript, HTML/CSS, SQL, MATLAB, Git.

Web & Databases: React, Node.js, Express, MongoDB, Bootstrap.

Data & ML: Pandas, scikit-learn, NLP techniques, data analysis, model evaluation.

Cloud & Certifications: AWS (Cloud Practitioner), Oracle Foundations.

Soft skills: Problem solving, leadership, research, teamwork, communication.

Education

VIT-AP University, Amaravati

Expected: September 2026

B.Tech in Computer Science and Engineering, SCOPE

CGPA: 8.40 / 10

Vidya Bharati Chinmaya Vidyalaya, Jamshedpur

March 2022

Senior Secondary School

Class 10: 94.4% Class 12: 83.2%

Projects

- **HealthAssist - AI Symptom Checker and Health Companion** [Live Link]
Tech: Python, FastAPI, React, TailwindCSS, Google API, Render, PostgreSQL
Implemented web-application that generates detailed analyses of the symptoms provided by the patient with personalized advices and precautions.
- **Smart Blood-Analyzer** [Live Link]
Tech: Python, NLP, Flask, Pandas, JavaScript
Implemented automated extraction of blood test parameters and rule-based condition prediction; reduced manual triage steps and produced structured reports for clinicians. Up to 1000 health markers.
- **TrueBlog (E-blogging platform)** [GitHub]
Tech: React, Node.js, Express, MongoDB, Bootstrap
Developed content creation and comment moderation features; integrated rich-text editor and responsive UI.
- **DevelopMe: Self-Development Analysis** *Tech: Python, Pandas*
Analyzed survey data to provide insight and visualizations for personal development metrics.
- **ArmLogix: EMG-Controlled Prosthetic Claw** *Tech: Arduino UNO, EMG sensors*
Designed sensor-to-actuator pipeline to translate EMG signals into finger movements; prototyped real-time control.

Certifications

- **Data Analysis in R (DataCamp)** [Link]
- **MERN Full Stack (Ethnus)** [Link]

- **AWS Certified Cloud Practitioner (AWS)** [\[Link\]](#)
- **Oracle OCI Generative AI Professional (Oracle)** [\[Link\]](#)
- **Oracle Certified Foundations Associate (Oracle)** [\[Link\]](#)
- **JavaScript Essentials (Cisco)** [\[Link\]](#)
- **Networking Essentials (Cisco)** [\[Link\]](#)

Achievements

- 2nd Place, The Return Journey Hackathon (IIT-Kanpur)

Leadership & Roles

- **Joint Secretary**, Data Science Club, VIT-AP University Sep 2024 – Present
Led workshops on data analysis and organized hackathon prep sessions; coordinated several club events and speaker sessions.
- **Manager**, TEAM NEXT NEXUS (Prompt Engineering Club) July 2024 – December 2024
Managed prompt engineering study groups and evaluated student submissions for generative-AI mini-projects.
- **Associate Manager**, Madhya Bharat Association (Cultural Club) July 2024–December 2024
Oversaw event logistics and team coordination for cultural events with 50+ participants.

Additional Information

Languages: English (Proficient), Hindi (Native)

Interests: Machine Learning, Data Analysis, AI Research, Number Theory, Art/Animation, Content Creation