RAJKUMAR GOUD

Profile Summary: Data Science Undergraduate — Machine Learning & AI Security Researcher

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RESEARCH INTERESTS

- Machine Learning • AI Security • NLP • Quantum Computing • Human–Computer Interaction

EDUCATION

- **INDIAN INSTITUTE OF TECHNOLOGY MADRAS, TAMIL NADU**
  B.S IN DATA SCIENCE (2023 - Present)
  Expected Graduation: 2027–2028
  CGPA : 5.5/10

- **INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH PUNE, MAHARASHTRA**
  BSMS (Dual Degree Program) [2022 - 2025]
  (Pursuing IITM and IISER Pune programs in parallel — dual academic track))

- BHEL Vikram Higher Secondary School — Senior Secondary Certificate (74 percent, 2021)

RESEARCH EXPERIENCE

- **Research Intern — Indian Institute of Technology Mandi**
  Supervisor: Prof. Varun Dutt — June 2025 – August 2025
  - Analyzed EEG/ECG data from 88 participants in 4 storytelling modes.
  - Conducted signal processing of ECG and EEG data to extract physiological and cognitive features.
  - Applied PCA + statistical modeling to identify patterns of cognitive engagement.
  - Utilized Python (NumPy, Pandas, SciPy, Scikit-learn) MATLAB and IBM SPSS Statistics software for data analysis and visualization.
  - Manuscript in preparation under Prof. Varun Dutt.

PROJECTS

- **Physics-Based Real-Time Game (Personal Project)**
  - Built a real-time physics simulation game with adjustable gravity and a synchronized day–night cycle.
  - Added procedural visuals, boss-fight mechanics, and enemy AI to enhance gameplay challenge.

- **ROBOGEN WORKSHOP ON ROBOTICS.**
  - Completed Robogen Robotics Workshop — built an RC car using RF modules and transistor-based motor control.

RELEVANT COURSEWORK

- Machine Learning Foundations, Probability and Statistics, Linear Algebra, Introduction to Quantum Physics.

TECHNICAL SKILLS

- *Computer Language :*
Python, JAVA, C++, SQL
- *Web Development :*
HTML, CSS, JavaScript, React.js, PHP
- *Libraries and Tools :*
NumPy, Pandas, SciPy, scikit-learn, Flask, DuckDB, Seaborn, Matplotlib, MATLAB
- *Scientific Tools :*
IBM SPSS Statistics, Kubios HRV Scientific
- *LANGUAGE :*
English, Hindi

SPORTS AND LEADERSHIP

- Silver Medalist – APJ Abdul Kalam Trophy (Cricket), organized by HEMRL, DRDO.

- Two-time Gold Medalist – Inter IISER Premier League (Cricket).

- Kho-Kho, Two-time Gold Medalist at IISER Pune.

- Silver Medal - Kabaddi at IISER Pune.

- Represented institute teams in volleyball, badminton, basketball, etc.