

Sai Ruchit Kumar

Computer Science Graduate

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EDUCATION

Master's in Computer Science	Sep 2023 - May 2025
NJIT - Ying Wu College of Computing	Newark, NJ
<ul style="list-style-type: none">• Cumulative GPA: 3.5/4.0• Relevant Coursework: Operating System, Database Management System, Data Analysis with R, Web System Development, Data Mining, Machine Learning, Artificial Intelligence, Data Structures & Algorithms, Corporate Finance, Java Programming	
Bachelor's in Computer Science	May 2019 - Aug 2023
Vellore Institute Of Technology	India
<ul style="list-style-type: none">• CGPA - 8 out of 10• Relevant coursework: Machine Learning, Artificial Intelligence, Data Mining and Warehousing, Database Management Systems Operating Systems, Algorithms and Data Structures, Software Engineering• Completed hands-on projects, including Stamp Detection using CNN for image recognition.	

ACADEMIC PROJECT

- **Chat Application using Django**

Why: To facilitate seamless real-time communication with user authentication and message history.

What: Developed a responsive chat application to enhance user interaction and messaging efficiency.

- **Credit Card Approval Rate Analysis**

Why: To predict the likelihood of credit card approval based on applicant financial and demographic data.

What: Built a machine learning model using logistic regression and decision trees to analyze key factors affecting credit approvals, enhancing financial institutions decision-making efficiency.

- **Advanced Multi-threaded Task Scheduler in OS**

Why: To optimize CPU resource allocation and process management for improved system performance.

What: Designed and implemented a task scheduler using multi-threading for efficient task execution.

- **Stamp Detection using CNN**

Why: To improve automated recognition of postal stamps for efficient sorting and archival processes.

What: Built a deep learning model using Convolutional Neural Networks (CNN) for high-accuracy image classification.

INTERNSHIP

Data Science Intern	Jul 2022 - Jul 2023
Corizo.co	Newark, NJ
<ul style="list-style-type: none">• Utilized Supervised and Unsupervised Learning techniques to enhance red wine quality detection in ML and AI projects addressing real-world problems• Engineered and deployed classification and regression predictive models to uncover insights and patterns in data• Enhanced prediction accuracy by 15% in the Red Wine Quality Detection project through the application of Decision Trees, Random Forest, and Support Vector Machines (SVM) on physicochemical properties like acidity levels ,enabling informed decisions in quality control operations	

KEY SKILLS

Programming Languages: Python, R, SQL, Java, HTML, CSS, JavaScript

Frameworks & Tools: Django, Power BI, MySQL, RStudio, Excel

Data Science & Machine Learning: Data Mining, Statistical Modeling, Supervised & Unsupervised Learning, Logistic Regression, Decision Trees, SVM

Artificial Intelligence: Neural Networks (CNN), Natural Language Processing (NLP)

Database Management: MySQL, Database Design & Optimization

Data Visualization & Reporting: Power BI, Excel

LEADERSHIP EXPERIENCE

Taekwondo Junior Team Coach

Andhra Pradesh State Team, National Taekwondo Tournament, India | Feb 2023

- Mentored junior athletes, preparing them for national-level competitions.
- Guided the team through competitions, focusing on both physical and mental preparedness.

EXTRACURRICULAR ACTIVITY

- Student Member of SANSKAR| NJIT - Ying Wu College of Computing | Jan 2023 - May 2025