

# Namit Rustagi

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## Education

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- B.Tech**, Vellore Institute of Technology, Bhopal, Computer Science (with AIML) 2022 – Ongoing
- CGPA: 8.36
- 12th**, Presidium Indirapuram, Ghaziabad, Uttar Pradesh 2022
- Grade: 86%
- 10th**, Presidium Indirapuram, Ghaziabad, Uttar Pradesh 2020
- Grade: 90.1%

## Technology and Tools

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**Languages:** C++, Python, Java, HTML, CSS, JavaScript, SQL.

**Programming Libraries:** C++ STL, OpenCV, TensorFlow, Pandas.

**Web Tools & Frameworks:** GitHub, Git, VSCode; Flask, ReactJS.

**Databases & Cloud:** MongoDB, PostgreSQL, SQLite.

**Coursework:** Data Structures and Algorithms, Operating Systems, Database Management Systems, Object Oriented Programming.

## Projects

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**SignScribe** github.com

- Developed a machine learning-based application to recognize American Sign Language (ASL) signs using a custom-built dataset, achieving over 90% accuracy. The application leverages advanced image processing techniques to detect hand shapes and movements.
- Enabled near-instantaneous sign recognition, significantly improving accessibility for ASL users, and providing real-time translation for easier communication, using OpenCV and Flask.

**AgroAid (In Development)** github.com

- Designed and developed an agricultural platform combining predictive models for crop recommendation, yield prediction, and soil analysis using real-time weather data. This solution helps farmers make informed decisions about their crop management.
- Achieved an R-squared score of 91.2% for yield prediction and 99.3% accuracy for crop recommendation, demonstrating the effectiveness of the machine learning models.

## Achievements

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- Secured a **Top 3 Teams Certificate of Appreciation** in the Hackathon: *AI Frenzy: Dream It, Generate It!*, for demonstrating the **Best Use of AI**, competing among 250+ participants.
- Achieved **Finalist Position** in the Hackathon: *IdeaHub 2.0: The Ultimate Tech Challenge*, competing against 600+ participants, showcasing innovative problem-solving skills.
- Won a **Gold Medal** in the *Men's Team Chess* event at *AdVITYa 2023*, competing against 400+ students.
- **NPTEL Elite + Silver Certificate** in *Privacy and Security in Online Social Media*.

## Certifications

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- *The Machine Learning Process A-Z - 365 Data Science*
- *Applied Machine Learning in Python - Coursera*
- *Geodata Processing using Python - ISRO*

## Extracurricular Activities

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- Participated in notable hackathons and competitions such as Flipkart Grid 6.0, Amazon Smbhav Hackathon 2024, Tata Elxsi Teliport Season 2, and TCS CodeVita 2024, gaining valuable experience in problem-solving and teamwork.
- Placed in the Top 10 in Chess at Aarambh 2023, a prestigious sports fest with participation from multiple colleges, demonstrating strategic thinking and competitive spirit.