

Sejal Madan

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Education

National Institute of Technology, Karnataka

Masters in Computer Applications

- CGPA: 9.03

Surathkal, Karnataka

Aug 2024 – present

University of Delhi

Bachelors in Science (Physics Hons.)

- GPA: 9.13

New Delhi

Aug 2020 – June 2023

Skills and Coursework

Programming Languages: C, C++, SQL, Python, Fortran

Relevant Coursework: Data Structures, Algorithms Analysis, Object-Oriented Programming (OOPs), Database Management Systems (DBMS), Machine Learning

Projects

Traffic Sign Classification

- Built a simple Convolutional Neural Network using TensorFlow and Keras, processing over 50,000 images of german traffic signs.
- Achieved an accuracy score of 96.8% on the test set.
- Preprocessed image data and used data augmentation to improve model robustness.
- Evaluated the model performance using accuracy/loss curves with Matplotlib.
- Implemented inference on custom images using the saved model.

Experience

Problem Solver

June 2021 – Aug 2022

Freelance Work

- Completed numerous freelance assignments on solving Mathematics and Physics problems.
- Received positive feedback for over 90% of the solutions.
- Utilized digital tools such as MathType and GeoGebra, ensuring the delivery of high-quality content.

Content Creator Intern

Nov 2020 – Jan 2021

Infybytes Ai Labs Pvt. Ltd.

- Created educational content focused on Science and Mathematics.
- Collaborated with a team of 10 subject matter experts to ensure the accuracy and quality of the content.
- Ensured that the content met the needs of the student by making it precise and easy to understand.

Courses and Certificates

Climate Change AI Summer School

- Learnt about the various applications of machine learning, at the intersection of science.
- Considering the emission footprint and the applications of machine learning, learnt about how it can be used as a tool to tackle climate change.

Coding Profiles

- [Leetcode](#)
- [GeeksForGeeks](#)

Achievements/Extracurricular

- Achieved an All India Rank of 60 in the NIMCET 2024 exam.
- Team Member, Spectra (Daulat Ram College) - Organized exhibitions and cultural events, contributed to gallery setups and supported overall society operations.