

Pallav Kamad

✉ pallavkamad@gmail.com

Computer Science Student

Education

Indian Institute of Technology, Delhi

July 2023 - Present

Bachelor's and Master's of Technology in Computer Science and Engineering

CGPA: 8.35/10

Sri Rangnath Maharaj Vidyalaya, Jalna

2021 - 2023

Class XII HSC

88.3%

Golden Jubilee School, Jalna

2021

Class X CBSE

98.2%

Key Projects

Machine Learning - Iris Flower

Individual Project, Sep 2024

- Implemented various ML algorithms for supervised learning.
- Compared the algorithms and finally found the percentage correctness of best algorithm.

Monte Carlo Simulator

Prof. S. Dharmaraja, Aug - Sep 2024

- Implemented algorithm to approximate probability of an uncertain event.
- Applied Game Theory Strategies to maximize this probability.

Optimized Gate Placement for Minimal Circuit Area

Prof. Preeti R. Panda, Aug 2024

- Designed a Heuristic algorithm for optimizing the layout to minimize the bounding box area of the entire circuit.
- Focused on efficient space utilization and placement strategies for circuit design.

Galactic cargo Management System

Prof. Parag Singla, Aug 2024

- An advanced logistics framework designed to manage, optimize, and coordinate the transportation and delivery of goods across interplanetary and interstellar distances.

Image Processing, Convolution and Filters

Prof. A. Kumar, March - April 2023

- Implemented Filters and Convolution Operations in Python.
- Familiarised with the use of Python libraries.

Relevant Courses

Computer Science: Introduction to Computer Science, Data Structures and Algorithms, Digital Logic & System Design, Discrete Mathematical Structures, Numerical Algorithms, Programming Languages, Computer Architecture, Design Practices.

Mathematics and Electrical Engineering: Calculus, Linear Algebra & Differential Equations, Probability & Stochastic Processes, Introduction to Electrical Engineering, Signals & Systems.

Additional Coursework: Machine Learning (Coursera, taught by Andrew Ng): Supervised Machine Learning: Regression and Classification, Advanced Learning Algorithms, Unsupervised Learning, Recommenders, Reinforcement Learning.

Technical Skills

Programming Languages: Python, C++, C, VHDL

Hardware: BASYS3 FPGA, Arduino

Libraries and Packages: Pillow, Pandas, PyTorch, NumPy, Matplotlib

Software and Utilities: Autodesk Inventor, Vivado, Git, LaTeX

Achievements & Extracurriculars

- **JEE Main 2023: 99.98 Percentile** — **100** Percentile in Mathematics - **Ranked 188** out of 1,000,000+ candidates
- **JEE Advanced 2023: All India Rank of 475** out of 160,000+ candidates qualified through JEE Main.
- Awarded Fellowship by the **National talent Search Examination** (NTSE) in 2020-21 by NCERT for being in **top 1000** students from all over the country out of 1,000,000+ applicants.
- Kishore Vaigyanik Protsahan Yojana: **KVPY SA 2021-22 (Ranked 1311** out of 150,000 candidates)
- Consolation Prize in **All India Junior Maths Olympiad** 2019
- **Distinctions** in ICAS MATHEMATICS/SCIENCE Competition Organized by **UNSW Global Australia** in the Year 2017
- **Executive** of Association of Computation Engineers and Scientists, Association of Computing Machinery (ACES-ACM IITD).
- **Academic Mentorship:** Tutored first-year undergraduates for the course Introduction to Electrical Engineering under Prof. Abhishek Dixit.