Pavithra Nelluri
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B.Tech
Computer Science and Engineering
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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. Major	Indian Institute of Technology Indore	8.34 (Current)	2023-Present
Senior Secondary	BIEAP	98.1%	2023
Secondary	BSEAP	100%	2021

EXPERIENCE

- **IITI DRISHTI CPS Foundation** *May 2024 - Jul. 2024*
  Machine Learning Intern Remote
  - Developed a **neural network-based binary classification model** to predict **pneumonia risk in ICU patients**, using **TensorFlow** on the preprocessed data.
  - Improved model performance by designing a new architecture and implementing optimized training strategies, resulting in an **increase of the AUROC score from 0.82 to 0.89.**.

PROJECTS

- **File Compression Tool** *November 2024*
  DR. Subra Mazumdhar GitHub
  - Engineered a fully functional file compression and decompression tool using **Huffman Coding, a greedy algorithm** for lossless data compression.
  - Achieved an average **compression ratio of 40–60%** on standard text files.

- **Agriculture Database Management System** *Oct. 2024 - Dec. 2024*
  Prof. DR. Aruna Tiwari GitHub
  - Implemented a **normalized database schema in 3NF** to ensure data consistency and eliminate redundancy.
  - **Built a responsive web app** catering to both farmers and authorities for secure data access and management.
  - **Integrated a machine learning model** to recommend suitable crops to farmers based on soil profiles and geographic parameters extracted using location-based APIs.

- **JobNexus** *May 2025 – Jun 2025*
  Self-Guided Project GitHub
  - Built a **resume analysis platform** using **Flask and Groq API** to extract insights from resumes and job descriptions.
  - **Implemented a permission-based system** allowing job seekers to share their resumes with recruiters; recruiters can browse authorized resumes and initiate contact with potential candidates.

TECHNICAL SKILLS

- **Programming**: Python, C++*
- **Development Tools**: HTML, CSS, Flask, JavaScript*
- **Machine Learning Tools**: Numpy, Pandas, Scikit-Learn, TensorFlow, GANs*, GenAI*
- **Database** : MySQL, Chroma DB
- **Other Skills**: Git & GitHub, Matplotlib
- **Concepts**: OOP, Data Structures, Algorithms, DBMS ** Elementary proficiency*

KEY COURSES TAKEN

- **Mathematics**: Linear Algebra, Basic Calculus, Discrete Maths, Mathematics for AI / ML, Numerical Methods
- **Computer Science**: Data Structures and Algorithms(with Lab), Database and Information Systems (with Lab), Design and Analysis of Algorithms(with Lab), Logic Design

POSITIONS OF RESPONSIBILITY

- **Volunteer**, Cynaptics Club, IIT Indore *Apr. 2024 - Apr.2025*
- **Member**, Avana Club(A Social Welfare Club), IIT Indore *Aug. 2024 - present*

ACHIEVEMENTS

- **JEE Advanced**, Secured **AIR 3247** out of 0.2 million candidates. *2023*
- **JEE MAINS**, Secured **AIR 2833** out of 1.1 million candidates. *2023*
- **NTSE**, Secured **STATE RANK 18** in stage 1. *2021*
- **Aptitude Olympiad**, Awarded Laptop for outstanding performance among national participants. *2019*