SOHA FARHANA

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 @sohafarhana   @sohafarhana

EDUCATION

- **Bachelor of Science (B.S) (Data Science)** [Profile]
  Indian Institute of Technology, Madras | *(Jan'24- Current)*   *CGPA: 8.67*
- **Bachelor of Technology(B.Tech) (Computer Science and Engineering)**
  National Institute of Technology, Andhra Pradesh |*(Nov'22-Current)*   *CGPA: 8.2*
- **XII** (TS-State Board) | Narayana Junior College, Hyderabad| *April, 2022*   *Scored 98.6%*

SKILLS

- **Programming Languages:** Python, Java, Unix/Linux environments, JavaScript, SQL, VHDL,C/C++
- **Data Science:** PyTorch, TensorFlow, NumPy, Pandas, Matplotlib, OpenCV
- **Softwares and Frameworks:** Flask,Git, Django, GitHub, React, NodeJS, VueJS, ReactJS, HTML5, CSS
- **Familiar with:** Natural Language Processing, Machine Learning, Artificial Intelligence, Software Engineering, Data Structures and Algorithms, Software Development,TCP/IP.

EXPERIENCE

- **AI Intern | Infosys SpringBoard**   *(Nov'24-Feb'25)*
  Built an AI system to convert alt text into detailed, context-aware descriptions, enhancing accessibility for users. Leveraging advanced ml techniques and langchain for development.
- **Contributor | GirlScript Summer of Code**   *(May'24-Dec'24)*
  Enhanced web development and Python projects on GitHub through open-source contributions and fixed critical bugs in a core Python library project.
- **JEE Advanced Math Tutor | Private**   *(May'24-Dec'24)*
  Developed strong concepts and monitored 4-5 students through tutoring JEE Advanced math.

ACADEMIC PROJECTS

- **Chest X-ray Disease Detection – AI & Medical Imaging Project** *(Google Girl Hackathon '25)*
  - Designed a deep learning model using **CNNs & PyTorch** to detect chest diseases from X-ray.
  - Achieved **90% accuracy** in diagnosing 2 major conditions like pneumonia and tuberculosis.
  - Integrated **Grad-CAM** for explainability, enhancing model transparency for professionals.
- **PaintME – Data Science Project:**
  - Developed and created an innovative virtual painter utilising OpenCV and PyTorch, resulting in a 40% decrease in false positives and a 25% improved accuracy rates. ***NIT-AP TechFest'23***
  - **Position of Responsibility: Joint Secretary** | CSE Association
    - Organised hackathons & conducted several sessions for 300+ college students on Computer Science and Technology related topics. *(Aug'23 – May'25)*
- **Student Result Portal – Web application:**
  - Collaborated on a team project to develop a web application and implemented basic student portal functionalities.
  - Used Django for backend development and HTML, CSS for frontend development.
- **College Management System (CMS) – DBMS project:**
  - Contributed to the development of a comprehensive CMS software for NIT Andhra Pradesh, enhancing college administration and management processes and implemented core functionalities including student enrolment, course management, and result processing.
- **Member | TEDx NIT Andhra Pradesh:**
  Member of the website team, collaborated to implement functional TEDx website for NIT-AP.

ACHIEVEMENTS

- **Semi-finalist at Google Girl India Hackathon '25.**
- Secured HackerRank SQL Intermediate [Certificate].
- Finalist at JPMC Code for Good '25 (Results Awaited).
- Achieved 4-star ratings in Java, C, Python, Problem solving, and SQL on HackerRank.