Karanam Preethi

Electrical Engineering
Indian Institute Of Technology, Jodhpur

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Github | LinkedIn | Leetcode

Education

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech (EE)	Indian Institute of Technology, Jodhpur	6.78 (Current)	2021-Present
Senior Secondary	Sri Chaitanya Junior College (BIEAP)	97.1%	2019-2021
Secondary	Sri Chaitanya High School (BSEAP)	10/10	2019

Technical Skills

- **Programming:** C/C++, Python, JavaScript, SQL, C#
- **Core Skills:** Data Structures, Algorithms, Problem Solving, Competitive Programming
- **Tools & OS:** Git,Google Colab, Linux, Windows
- **Libraries/Frameworks:** Pandas, Numpy, scikit-learn, .NET
- **Web Skills:** HTML/CSS/JS, ReactJS, NodeJS/ExpressJS, MongoDB, Java Springboot, Angular

Experience

- **Microsoft** *May 2024 - July 2024*
  SDE - Intern Hyderabad
  – Developed functional tests to validate software components within a Component Validation Framework.
  – Created unit tests to ensure the reliability and robustness of individual code units.
  – Utilized mocking classes to simulate external system interactions during testing processes.
  – Enhanced understanding of testing practices critical for maintaining software reliability and functionality.

Projects

- **Institute Guest House Booking Website** *June. 2023 - Nov. 2023*
  Website for booking guest houses at IIT Jodhpur
  – **Tools & technologies used**: ReactJS, NodeJS, ExpressJS, MongoDB
  – Led a team of 3 in the creation of the website, overseeing UI design and full-stack development.
  – Developed features to manage guest house bookings and implemented an admin interface for efficient administration
  – Designed and integrated RESTful APIs using Node.js and Express.js, enabling seamless data retrieval and manipulation for bookings and user authentication.

- **MOVIE RECOMMENDATION SYSTEM** *Feb. 2023 - April. 2023*
  based on our picklist it shows related movies
  – Led movie recommendation project, utilizing Kaggle dataset to develop personalized recommendation system
  – Collaborated on preprocessing and analysis of movie dataset for accurate and relevantrecommendations.
  – Implemented machine learning algorithms (collaborative/content-based filtering) for personalized movie suggestions.

- **5G MM WAVE ANTENNA ANALYSIS DESIGN** *Jan. 2023 - April. 2023*
  Design Credits
  – Conducted extensive research on SICL-based antennas for 5G Communication.
  – Designed and developed state-of-the-art SICL-based antennas for 5G Communication.
  – Led a team in project management and collaboration for successful implementation of the design credits project.

Key Courses Taken

- Data Structure & Algorithms, Machine Learning, Pattern Recognition & ML, Computer Architecture, Introduction to Computer Science , Probability, Statistics and Stochastic Processes, Engineering Electro Magnetics

Positions of Responsibility

- **Assistant Head,** Varchas 22, Sports Fest of IIT Jodhpur *2022*

Achievements

- **Amazon Summer School** Scholar *2023*
- Published a research paper on 5G wave antenna *2023*