PARIMI ANUDHEER

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EDUCATION

Bachelor of Engineering in Artificial Intelligence & Data Science from Chaitanya Bharathi Institute of Technolog Hyderabad. CGPA of 8.68 , graduating in 2025.

Senior Secondary Education from FIITJEE Junior College, achieved 91.2% under the Telangana State Board of Intermediate Education (TSBIE) in 2021.

Matriculation from FIITJEE High School, secured 93% under the Secondary School Certificate (SSC) Board in 2019.

EXPERIENCE & PROFESSIONAL DEVELOPMENT

- **Amazon ML Summer School**   *April 2024 - May 2024*

  Intern
  - Acquired comprehensive knowledge in key Machine Learning topics: Supervised Learning techniques for predictive modeling, Deep Neural Networks for complex data representation, Generative AI for creating new data samples, and Large Language Models (LLMs) for natural language processing.
  - Engaged with Amazon Scientists to explore breakthrough innovations and real-world applications.
  - Developed foundational skills and insights to prepare for a career in Machine Learning.

- **PHN Technology**   *April 2023 - May 2023*

  Intern
  - Conducted data analysis and visualization on diverse real-life datasets to extract meaningful insights.
  - Applied machine learning methodologies, including data preprocessing, feature engineering, and model evaluation.
  - Implemented various machine learning algorithms to develop predictive models and improve decision-making.

- **Share-O-Matic App**   *Jan 2023 - Feb 2023*

  Marketing Intern
  - Implemented targeted promotional strategies and actively engaged with attendees at the Shruthi Sudhee event, acquiring 1,200 new subscribers within 4 days, significantly boosting the user base.
  - Promoted the app through social media campaigns, email marketing, and on-ground promotional activities, increasing attendance, user engagement, app visibility, and brand awareness.

PROJECTS

- **RL for Fuel-Efficient Driving on Hilly Terrain: Maximizing Horizontal Distance Traveled**   *Mar 2023 - Aug 2023*
  - Developed a custom "CarEnvironment" in OpenAI Gym, simulating a car navigating hilly terrain with dynamic slopes and gravity. Added features for realistic terrain and rewards to enhance agent performance through reinforcement learning.
  - Applied Q-learning to train the agent for efficient navigation in the "CarEnvironment," optimizing fuel usage and goal achievement. Fine-tuned hyperparameters and rewards for balanced exploration and performance in complex terrain.
  - Designed a reward function that reduced fuel consumption from 50 to 24 units by penalizing inefficiency and encouraging optimized driving strategies

- **Analyzing time complexities of sorting algorithms using ML**   *May 2022 - Sept 2022*
  - Developed and implemented sorting algorithms—Selection, Insertion, Merge, Quick, Heap, Bubble, and Radix—to analyze their time complexities. Evaluated performance with various inputs and visualized results to assess efficiency and suitability.
  - Conducted detailed performance evaluations of sorting algorithms with random, ascending, and descending data sets. Analyzed and compared metrics, and used plotting techniques to effectively visualize and present the results.

- **Graphical Password Authentication**   *May 2022 - Sept 2022*
  - Used Python and MySQL to develop a model using images instead of text to verify users at login, significantly enhancing security and reducing the risk of password breaches in sensitive environments.
  - Optimized it to avoid shoulder surfing by focusing on the item in the image rather than the image itself, enhancing login security and user experience. This approach reduces password forgetfulness and protects against dictionary attacks.

PUBLICATIONS

- **Reinforcement Learning for Fuel Efficient Driving on Hilly Terrain**   *July-2024*

  GRENZE International Journal of Engineering and Technology

TECHNICAL SKILLS

- **Programming Languages**: C,Python,Java,,Matlab,SQL,HTML,CSS,Scilab,R
- **Tools and Frameworks**: Scikit-learn,Numpy,Pandas, Mathplotlib,TKinter,Gym,PIL,PyGame,GitHub,LaTeX

ACHIEVEMENTS

- **ARET International Conference**,Presented a paper on Reinforcement Learning   *Feb 2024*
- **Research Day 2023**,Awarded Best Paper (Research Day Nov-2023)   *Jun 2022*
- **NPTEL 2022**,Received Gold Medal for The Joy of Computing using Python   *Oct 2022*

POSITIONS OF RESPONSIBILITY

- **Research Department Member**,Neural Nexus Club, CBIT   *Jun 2023 - Present*
- **Organizing Member And Junior Coordination**,United Coder's Club, CBIT   *Jun 2023 - Present*