Pranav Kumar K

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Profile

An enthusiastic, self-motivated individual, I possess a strong collaborative spirit and thrive when faced with diverse challenges, even in high-pressure situations. My passion lies in making a significant contribution to the realm of artificial intelligence and machine learning.

Projects

Identification of Different Medicinal Plants/Raw Materials through image processing using Machine Learning algorithms:

- Used a dataset of 70 different plants with 150-200 images of each and performed image preprocessing for each image. And then made a CNN model and trained it with the above mentioned dataset.
- The model gave training accuracy of 100.00, validation accuracy of 99.42 and prediction accuracy of 97.5.

Q&A and Summarizer Application for Custom (or Private) Documents:

- Built an OpenAI project which answers to the questions based on the user's documents.
- Uses Langchain and learnings from Prompt Engineering to obtain key information from any document.

An Analytical Case Study on HCV and Heart Failures

Used Python libraries such as Pandas, Numpy, SciPy, Seaborn, and Matplotlib to obtain conclusive results about the causes of the diseases.

Railway Management Application

- Created the application using SQL, Python and Tkinter for users to find information about trains and book tickets.
- Developed an understanding of creation of Databases and their maintenance.

Analysing Agriculture in INDIA and Predicting Crop Production

- Used IBM Cognos for effective data analysis and Visualisation. And Predicted Crop Production Based on Geographic and Seasonal Factors

Experience

Membership Chair, ACM Manipal   *(Feb 2022 - Present)*

- Promoted as the Membership Chair of ACM (Student Chapter of the renowned International Organization) after working as a Core Committee member since February 2022.
- Responsible for recruiting more core committee members from over 300 students and guided the members in various technical domains.
- Organized and Managed an online nationwide coding contest called Codentine.

Cryptonite TaskPhase   *(Dec 2022 - Feb 2023)*

- Gained an understanding on Cryptographic algorithms like DES, AES, Difficult Hellman and Buffer, stack and heap overflow attacks

Skills

- Languages: C++ | Python | C | Java | HTML | CSS | Bootstrap | Javascript
- AI/ML: AI | ML | Computer Vision | Data Analytics & Visualisation | Deep Learning
- Analytical Tools: Power BI | IBM Cognos
- Others: SQL | DSA | MPI | DBMS | Langchain | PyTorch | PySpark

Achievements and Volunteer Work

- STSO gold medalist in 8th grade.
- Organizing Committee Member for Tech Tatva and Revels, Fests of MIT.
- Gold medalist in zone level VolleyBall tournament.
- Secured Top 5 in CTF event Conducted by Bugbase and ACM.

Education

Manipal Institute of Technology, Manipal   *(July 2021-June 2025)*

- B-Tech , CSE & AI/ML, CGPA -8

Sri Chaitanya Bharathi Junior College   *(July 2019-June 2021)*

- Intermediate (Class 12), Percentage-93%

Nagarjuna Talent School, Hyderabad   *June 2019*

- Secondary (Class 10), GPA-9.8