PATNALA SHYAM RAM

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Education

Indian Institute of Technology, Hyderabad CGPA - 8.2
B.Tech. Chemical Engineering *2020 - 2024*

Sri Chaitanya Jr. College, visakhapatnam CGPA - 9.94
M.P.C (APBIE) *2017 - 2019*

S.F.S High School, visakhapatnam CGPA - 9.56
Secondary High School (BSEAP) *2014 - 2017*

Internships

Machine Learning Engineer Intern | *Stellar Solutions* Jan 2024 – Jun 2024
-Developed a machine learning model to predict customer churn, resulting in a 10 percent reduction in churn rate and a 5 percent increase in customer retention.
-Improved image classification accuracy by 15 percent using a convolutional neural network.
-Collaborated on a recommendation system, leading to a 20 percent increase in click-through rates and a 10 percent revenue boost

Data Science Intern | *ABB Ability Innovation Centre Hyderabad* May 2023 – Aug 2023
-The project involved understanding and developing casual analysis and its network based on statistical multivariate analysis of electrical distribution network to find resilient energy network and the energy management solutions with optimization using graph neural network models.

Skills

Languages: C++, Python, JavaScript, SQL, HTML5, CSS3, MERN Stack
Machine Learning: Tensorflow, keras, sklearn, Matplotlib, Seaborn,
CourseWork: Data structures and algorithms, database management systems, operating systems, Probability, statistics, Linear Algebra, Calculus, Differential Equations

Projects

Amazon User Segmentation | *python, K-Means Clustering, Matplotlib* 2024
- Employed the K-Means clustering algorithm to segment Amazon users based on their behavior.
- Utilized the elbow method to determine the optimal number of clusters. Visualized the results using Matplotlib.

Predictive Analytics for Customer Churn Prediction | *Python (scikit-learn, pandas, matplotlib)* 2024
- Developed a machine learning model to predict customer churn in a telecom company.
- Used logistic regression and random forests to identify at-risk customers and recommend retention strategies.

Path finding visualiser | *Python* 2023
- Implemented a GUI which finds the optimal path in a maze that is generated randomly through recursive division algorithm.
- Implemented real-time updates to display the A* algorithm's progress, highlighting the visited nodes and the path.

Walmart Sales Data Analysis | *Python, postgreSQL* 2023
- Explored sales data from three different branches to understand top performing products, sales trends and customer behavior.
- Conducted product, sales, and customer analysis using SQL.

Achievements

- Secured AIR 2225(category) in JEE Advanced
- Expert on Codeforces (Peak Rating:1655)
- To lead IITH Volleyball to second in Inter IIT Sports Meet 2023