A R Hrudayabhiram

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Education

- **Panimalar Institute of Technology** — Chennai, India
  Bachelor of Technology - Artificial Intelligence and Data Science; CGPA: 8.1 — August 2021 - August 2025
  - Courses: Data Structures, Analysis of Algorithms, Artificial Intelligence, Machine Learning, Data Analysis, Operating Systems, Databases, Computer Science , Mathematics

Skills Summary

- **Languages**: Python, SQL ,JavaScript
- **Databases**: MySQL, PostgreSQL, SQLite
- **Visualization Tools**: PowerBI, Pandas, Matplotlib, Seaborn
- **Frameworks**: NLTK, Flask
- **Platforms**: Linux, Web, Windows, Arduino, Raspberry Pi, AWS, GCP, Alibaba Cloud, IBM Cloud
- **Other Skills**: Data Analysis, Data Modelling, Data Visualization, Statistics, Excel, Leadership

Experience

- **National Institute of Technology, Tiruchirappalli** — On-Site
  Data Analyst Intern — May 2024 - Present
  - **Goal**: This internship focuses on practical applications in data science and analytics, allowing me to further develop my skills in data visualization and machine learning
  - **Methodology**: Coordinated and led a team of 2 data interns to achieve project targets through strategic planning and use of SVM, Naive Bayes, RNN algorithms, and also used DASS Questionnaire
  - **Result**: Designed a Mental Health predictive model using Machine Learning techniques with an accuracy 35% higher than existing models

- **EY-GDS, AICTE** — Remote
  Data Analyst Intern — Jan 2024 - April 2024
  - **Goal**: Worked on a project focusing on customer segmentation using tools like Python, and utilized the k-means clustering algorithm to categorize customers into distinct groups
  - **Impact**: Built a predictive model to segment customers based on their behavior, preferences, and demographics, achieving an accuracy rate of 80% in segment identification, and improved targeted marketing strategies by providing actionable insights on customer preferences and behavior

- **Trios Technologies** — On-Site
  Artificial Intelligence Intern — Jul 2023 - Aug 2023
  - **Goal**: Gained hands-on experience with popular AI tools and frameworks like TensorFlow, Keras, and PyTorch, and worked on several projects involving AI model development
  - **Impact**: Built a machine learning model that could predict sentiment for customer reviews in the e-commerce domain with an accuracy of 85%

Projects

- **Assessment of Marginal Workers in Tamil Nadu**: Conducted an in-depth analysis of marginal workers in Tamil Nadu, utilizing advanced statistical techniques and data mining methodologies. Collected and processed large datasets to uncover valuable insights into workforce dynamics, employment patterns, and socio-economic factors affecting marginal workers, applying K-Means Algorithm. Tech: Python, Data Visualization
- **Music Generation Using RNN**: Utilized Recurrent Neural Networks (RNN) to generate unique musical compositions. Implemented Python, TensorFlow, and Keras to train the RNN model on a large dataset of musical notes, achieving impressive results in generating melodious tunes with minimal human intervention
- **Prediction of Student Grades Based on Unsupervised ML**: Developed an advanced system utilizing Unsupervised Machine Learning techniques to predict student grades accurately. Employed clustering algorithms such as K-means and hierarchical clustering

Publications

- **Towards Accessible Justice**: Research Paper on an AI-Driven Legal Document Drafting Application for Unrepresented Litigants: AI-driven solution aimed at empowering individuals, particularly unrepresented litigants
- **Turning Reviews into Revenue: A Data-Driven Approach to Product Marketing with Sentiment Analysis**: Published a research paper in the International Journal of Scientific and Engineering Research. The paper delves into the innovative use of sentiment analysis in product marketing strategies, demonstrating how data-driven insights from customer reviews can be leveraged to drive revenue growth

Courses

- **IBM Data Science Professional Certification**: