

R Pavan



Profile

Prospective data analyst who strives to pose and answer questions with quantitative driven insights. Through development of personal projects, I have learned the importance of having an iterative approach to analysis. Seeking an opportunity in an organization that will push my boundaries while nurturing analytical and technical skills.

Contact

Phone: +91 8179424695
E-mail: rpavan0513@gmail.com
LinkedIn: <https://www.linkedin.com/in/rp13/>
Website: <https://rpavan07.github.io/>

Education

Course	Institute	Passing Year & Grade
Bachelor of Technology, Instrumentation and Control Engineering.	Manipal Institute of Technology, Manipal, Karnataka.	October 2021 CGPA: 7.87/10
Senior Secondary (SSC)	Sri Chaitanya, Hyderabad, Telangana	April 2017 Marks: 900/1000
Primary Schooling (ICSE)	International Educational Academy, Hyderabad, Telangana	May 2015 Percentage: 85.3

Relevant Courses

Data Science Specialization in R by John Hopkins University, Programming for Everybody (Getting Started with Python), Python Data Structures, Neural Networks and Deep Learning, MySQL for Data Analytics and Business Intelligence.

Projects

- **Development of hybrid methods to identify Glaucoma using fundus images.**
 - Used methodologies like HSV, Superpixel (both on Python) and MSER (MATLAB) to detect Glaucoma.
 - The results mentioned in the above methodologies weren't satisfactory, so decide to create a Convolutional Neural Network.
 - Used 3 convolutional max pooling layers, a dropout, dense and a fully connected layer. Then, these features were classified into normal and glaucoma cases during testing.
- **Analysis and Visualizations of Football Data**

Work Experience

- Aggregated data from various sources, then after further analyzing created visualizations to go with it.
- Used algorithms such as k-means clustering and GMM clustering to group different players according to their play style and other stats.
- Created a Gradient Boosting model in Python to create an Expected Goals Model, which measures the quality of a chance by calculating the likelihood that it will be scored from a particular position on the pitch.
- Implemented an Expected Threat Model in Python and R, which provides us with a framework to value any ball moving action in terms of how likely it is to result in a goal in the next n actions (where a good n value is typically 4-5).

Skills

- **Innovians Technologies – IoT Intern**

May'19 – June'19

Built IoT products using Arduino, NodeMCU, ESP8266 and Raspberry Pi. These IoT devices were used to bring intelligence and autonomy to systems and processes, such as home automation.

- **Programming:** R, Python, SQL
- **Clustering:** k-means and GMM
- **Modelling:** Linear Regression, Logistic Regression, Gradient Boosting, Random Forest
- **Data Visualizations:** ggplot2, matplotlib, Tableau
- **Others:** PowerPoint, MATLAB, Excel

Others

- Participated in a college fest as an organizer- **March ,2019.**
- Participated in a college fest as a volunteer – **October ,2018.**

Personal Details

Date of Birth – 13 May 2000

Place – Hyderabad

Languages – English, Hindi, Telugu