PRANAV NAGARAJAN

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Nationality	:	Indian
Residence	:	Chennai, India

SUMMARY

Budding Industry 4.0 Engineer with a knack for Data Visualization, keen to work in the intersection of Sports and Data Science. Has a huge appetite to implement data-driven strategies using open-source tools and latest cutting-edge cloud technologies. Open-Source Tech Evangelist and a lifelong learner.

INTERNSHIPS

Nashville Soccer club, MLS   *Jan 2020 - Present*
Technical Analytics - Remote

- Built data pipelines to merge event and tracking data from different sources, create bespoke metrics to quantify the club's game model.

- Created portals, match reports and coach-friendly visualizations to support Player Recruitment process, Match Analysis, Ad-hoc player/team analysis.

- Automated report generation and pushed all codes to a centralized package for use by other analysts

Kadamba Technologies Pvt Ltd, Chennai   *May 2019 - July 2019*
Cricket Analyst

- Investigated KPIs indicating a Team's and Player's performance.

- Retrieved required data using SQL and visualized them using Tableau.

- Assisted Senior Analysts in sending Match Preview dockets to ESPN, Star, Cricket.com by querying required data from the database with proper validation.

- Developed Marcos in MS-Excel to speed up process of tabulating data for documentation purposes.

Clayfin Technologies Pvt Ltd, Chennai   *May 2018 - June 2018*
Cross-Platform App Development

- Implemented an application based on Android/iOS platform for Student Registration System using Apache Cordova and Microsoft Visual Studio.

- Managed creation and purging of databases based on age of online transaction records.

EDUCATION

Vellore Institute of Technology, Chennai   *Aug. 2020 - July 2022 (Expected)*
Masters - Data Science

Vellore Institute of Technology, Chennai   *June. 2016 - July 2020*
Bachelors - Electronics and Computer Engineering - 88.9%

- **Program Representative** | *Electronics and Computer Engineering*   *Aug 2019 - July 2020*
  Program Representative of the first ever Electronics and Computer Engineering department batch from VIT University. Serving as a Liaison between Dean, Program Chair, Co chairs and fellow students of the same batch.

- **Organizer, Events** | *TechnoVIT 2017,2018* *Sep 2017,2018*

  Organized NFS Aqua which was the "Star Event" of ConnectiVITieee/TechnoVIT 2017 . NFS Aqua was a Remote Controlled Boat Race event, in which participants were required to complete time trials by passing through barriers and obstacles.

DAV Matric Higher Seconday School, Chennai *June. 2014 - Apr. 2016*
Computer Science Stream – 96.9%

Smt Durgadevi Choudhary Vivekananda Vidyalaya, Chennai *Mar. 2014*
Grade 10 - 100%

PERSONAL PROJECTS

- **Visual Analytics in Cricket - ESPNCricinfo Data** *May 2019 - Present*

  R Shiny Application to visualize Performance of Cricketers using my R package statsguRu.
  Link to Project

- **Optical Player Tracking System In Soccer** *Jan 2019 - Apr 2019*

  Detect and Track the players in a football match and store the data to provide information like heat-maps, average playing position etc. so that a performance analysis can be carried out in the future.
  Link to Project

- **Football Match Prediction using Statistical Learning** *Aug 2018 - Dec 2018*

  Developed and Compared the accuracy of various Machine Learning Algorithms in predicting the outcome of a football match using R Programming language.
  Link to Project

- **Smart Energy Monitor** *Aug 2018 - Oct 2018*

  Monitor our residential electricity usage from anywhere in the world and get a SMS/E-mail when the energy consumption crosses a manually configured threshold value.

- **Docker for NS2** *Feb 2019*

  Built and deployed a light weight Ubuntu container to run Network Simulator 2 with GUI support, to enable hassle free installation and usage of Applications like NS2, TraceGraph, XGraph and other networking software for UNIX environment.
  Link to Project

HONORS AND AWARDS

- **3rd Place, IEEE Computer Society Hackathon**
  Predicted a Building's Susceptibility to Earthquakes and built an automatic Alert Management System

- **2nd Place - Intra-University Python Programming Contest**
  Secured Second place in University wide "Python Programming" assessment test conducted by Linux User Group of VIT supported by IIT Bombay and MHRD, Govt. Of INDIA.

- **100% Attendance Award**
  Certificate of Appreciation for having 100% Attendance during AY 2017-18 and AY 2018-2019.

PUBLICATIONS

- **UDRMM - Open-Source Remote Monitoring and Management Tool for Educational Institutes** *Awaiting Publication - Springer LNCS*

A cross platform Remote Monitoring and Management Tool for Educational Institutes built completely out of PowerShell.

- **"statsguRu" - R Package (Non Peer Reviewed)**   *May 2019 - Present*
  R package to analyze performance of Cricket Players using data from ESPN's Statsguru. Using this package we can scrap Test Matches, One Day Internationals, Twenty-20 Internationals data of a player from ESPNCricinfo's Statsguru and then visualize their batting, bowling and fielding performances in the form of charts and graphs. This package is currently available in CRAN.
  Link to Project

EXPERTISE

Building Viz Dashboards	Creating ML/DL pipelines	Web Scraping
Creating APIs	Serverless Computing	Cloud Services
Package Development	Process Automation	Cross-Platform App Development

TECHINCAL SKILLS

Knowledge	Programming Languages	Platforms, Tools, Software Packages
Very Good	R, SQL, Python	Tableau, AWS, Shell Scripting, Apache Cordova, Docker
Good	Java, C, C++, JavaScript, PHP	Git, NodeJS, Power BI, IBM Cloud, Apache Spark

LANGUAGES

English	:	Full Professional Proficiency
Kannada, Tamil	:	Native or Bilingual proficiency
German, Hindi	:	Limited Working Proficiency
Spanish	:	Elementary Proficiency

LINKS

Website	:	Link
Blog	:	Link
LinkedIn	:	Link
GitHub	:	Link
Twitter	:	Link