

PRANAV NAGARAJAN

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Residence : Chennai, India



SUMMARY

Aspiring Data Scientist with experience in Data Visualization, learning on devising data-driven strategies and has a huge appetite to implement them using latest open-source tools and cutting-edge cloud technologies.

Currently working towards building a sustainable world in the era of Industry 4.0., besides have a strong determination to contribute to the fields of Sports Intelligence, Knowledge and Process Discovery, Energy Optimization.

INTERNSHIPS

Nashville Soccer club, Tennessee

Jan 2020 - Present

Data Analyst (Volunteer Intern - Remote)

- Build data pipelines to merge event and tracking data from different sources, create bespoke metrics to quantify the club's game model.
- Build portals, match reports and coach-friendly visualizations to support Player Recruitment process, Match Analysis, Adhoc player/team analysis.
- Automate report generation and push all codes to a centralised 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

June. 2016 - Aug 2020 (Expected)

Batchelor of Technology in Electronics and Computer Engineering - 88.8%

DAV Matric Higher Seconday School, Chennai

June. 2014 - Apr. 2016

Computer Science Stream – 96.9%

MINI PROJECTS

- **Visual Analytics - 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**
Secured third place among top 17 teams after the final round in the 24 hour hackathon "Hackhub" organized by IEEE Computer Society VIT Chennai.
- **100% Attendance Awards**
Certificate of Appreciation for having 100% Attendance during AY 2017-18 and AY 2018-2019.
- **Best Project Award**
Awarded by the School of Computing Science and Engineering for the project title Smart Irrigation.
- **Certificate of Excellence - 2nd Place - Python Programming**
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.
- **Certificate of Merit - SSLC**
Certificate of Appreciation for Outstanding Performance and For Obtaining Grade 'A1' in All Subjects.

LEADERSHIP AND VOLUNTEER EXPERIENCE

- **Program Representative | Electronics and Computer Engineering** *Aug 2019 - Present*
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.

- **Co-Ordinator, Events** | *TechnoVIT 2018* *Sep 2018*
Co-Ordinated the RC Boat Race event "NFS Aqua 2.0" in ConnectiVITieee/TechnoVIT 2018.
- **Organizer, Events** | *TechnoVIT 2017* *Sep 2017*
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.
- **Member** | *VITCC Robotics Club* *Aug 2017 - May 2018*
Actively Participated in workshops and makeathons conducted by the Robotics Club in VIT University Chennai Campus.

FIELDS OF INTEREST

Football Analytics, Energy Optimization, Knowledge and Process Discovery, Network Engineering.

PUBLICATIONS

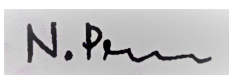
- **UDRMM - Open-Source Remote Monitoring and Management Tool for Educational Institutes** *Awaiting Publication - Springer LNCS*
A cross platform Remote Monitoring and Management Tool for Educational Institutes built completely out of PowerShell.
- **Evaluating Compressive Strength of Concrete Aggregates using Statistical Learning.** *May 2020 - Present*
An Analytical approach in determining various factors affecting the compressive Strength of a mixture containing Cement, Fly Ash, GGBS, A strengthening additive and using a model to predict the Strength of a new proportion of the same constituents.
- **"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](#)

TECHINICAL 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, Spanish, Hindi : Elementary Proficiency



Signature
 (Pranav Nagarajan)