PRANAV NAGARAJAN

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Nationality	:	Indian
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 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

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 - 87.2%

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

Smt Durgadevi Choudhary Vivekananda Vidyalaya, Chennai   *June. 2013 - Mar. 2014*
Grade 10 - 100%

PROJECTS

- **R Shiny Dashboard**   *May 2019 - Present*
  R Shiny Application to visualize Performance of Cricketers using my R package statsguRu.
  Link to Project

- **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 softwares for UNIX environment.
  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 heatmaps, 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.

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 Liasion 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 (IN PROGRESS)

- **"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 availabe in CRAN. Link to Project

- **Evaluating Compressive Strength of Concrete Aggregates using Statistical Learning.**
  Aug 2019 - Present
  An Analytical approach in determing 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.

TECHINCAL SKILLS

Programming Languages:
Advanced	:	C, R, SQL
Intermediate	:	Python, Java, C++, HTML, JavaScript, CSS, PHP

Platforms and Software Packages:
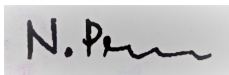|		
Advanced	:	Tableau, Amazon Web Services, Linux
Intermediate	:	NodeJS, Docker, Power BI, IBM Cloud, Apache Spark,Apache Cordova
Novice	:	Apache Zeppelin, Bootsrap Studio, Packet Tracer, WireShark

Familiar Packages in Data Science:

Discipline	Packages
Data Visualization	Matplotlib, Plotly, ggplot2, Seaborn, D3.JS
Data Engineering	Pandas, SciKit-Learn, NumPy, R Shiny

LANGUAGES

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

Signature
(Pranav Nagarajan)