

Objective

To obtain a Graduate School Admission in the field of Computer Science and Engineering, followed by a career in Research & Development

- **Research Interests:** Computer Vision, Machine Learning, Social Network Analysis.

Education

- **PES Institute of Technology, Bangalore, India(080 2672 1983)** August 2013 - Present
 - B.E in Computer Science and Engineering
 - CGPA: **9.52 out of 10**

Course Projects

- **Laser Projection System** Oct 2013 - Nov 2013
Advisor : *Dr. Raghavendra Rao, Science and Humanities Dept., PESIT*
 - Developed a laser projection system which can be used to project static and dynamic images on any surface using a single laser beam. The project was Arduino based and the movement of the laser was programmatically controlled by galvanometers which in turn were controlled by the Arduino board.
- **Smart Meter** May 2014 - June 2014
Advisor : *Prof. Nitin V Pujari, HOD, CS Dept., PESIT*
 - Developed a RaspBerry Pi add-on to the existing Energy Meter which encompasses all the basic functions of a standard smart meter at a fraction of the cost. Electric utilization can be tracked through the cloud in real time which enables efficient management of power consumption at an affordable price.
- **IlluminaText** Oct 2014 - Nov 2014
Advisor : *Prof. Srinivasa Murthy, Assoc. Prof., CS Dept., PESIT*
 - Developed a fully functioning text editor cum Java IDE along with features like auto indentation of code, finding and replacement of tokens, syntax highlighting, highlighting of classes from the same package, compiling and running of Java code. The project was completed as part of Data Structures in Java course. All the features were implemented using data structures in Java including Stacks, Linked List, n-ary Trees and Binary Search Trees.
- **Social Network Analysis using NodeXL** Sept 2014 - Nov 2014
Advisor : *Prof. Nitin V Pujari, HOD, CS Dept., PESIT*
Organization: *Ordell Ugo*
 - The following tasks were executed as part of the project at Ordell Ugo.
 - a) Importing of meta data required for analysis from various social networking sites like Facebook and Twitter
 - b) Analysis of the meta data including the inter personal relationships between the person logged in and others on the social networking sites
 - c) Generation and Analysis of the Social Network Graph using NodeXL
 - d) Calculation and analysis of various Graph Metrics on the Graph Model Object including various metrics like In-Degree, Out-Degree, Betweenness Centrality, Closeness Centrality, Eigenvector Centrality, Page Rank and Clustering Coefficient.
- **IPL Predict!** April 2015 - May 2015
Advisor : *Prof. Srinivasa Murthy, Assoc. Prof., CS Dept., PESIT*
 - It is an Android application, published on the Google Play Store, that implements a custom Prediction Algorithm in order to predict the winner of any IPL match. The application uses the data from all the previous IPL matches, the players' statistics, team performances, stadium history and numerous other stats in order to predict the winner of any IPL match with an accuracy of up to 85%.
- **Web Development in Django** May 2015 - July 2015
Advisor : *Mr. Sandeep Raju, Product Engineer, Plivo Inc.*
Organization: *Plivo Inc.*
 - The following tasks were executed as part of the Developer Team at Plivo Inc., Bangalore.
 - a) Building REST APIs for the company database models from the ground up using Django and Django REST Framework.
 - b) Implementation of basic authentication and permissions for API calls
 - c) Building the official Operations and Control Dashboard for the Support Team at Plivo Inc.

Internships

- **Summer Research Intern** May 2014 - July 2014
Place : *Ordell Ugo, PES Institute Of Technology*
- **Developer Intern** May 2015 - July 2015
Place : *Plivo Inc., Bangalore*

Other Projects

- Built a two-click solution for deploying a **custom stack on the AWS instance** and on the local development machine. Synchronizes your local dev environment with that on the server in real time. Built using Docker Compose and Docker Machine, it was one of the judge's favourite at Sequoia Hack 2015.
- **Open Source contributor to Django Project**, one of the largest open source web framework used extensively by the industry, including NASA, OpenStack, Mozilla and National Geographic.
- **Open Source contributor to Mozilla Foundation** on projects such as Bedrock.
- Built and maintained **www.aatmatrisha.in**, the official website of Aatmatrisha, one of the biggest techno-cultural fests organized by PESIT, in Karnataka.
- Built an Android app, **MoneyTracker**, which acts as your Digital Personal Assistant by keeping track of your expenses and other such important appointments. This is done by screening the SMS Inbox for critical information in real time and generating a graphical analysis of your expenditure.
- Built an Android app, **ePrescription**, that moves the whole process of medical consultation and prescriptions right into your phone. The prescriptions are stored digitally in the phone. Implements Google Search for the prescriptions, scheduling online appointments and video call.
- Built a web application, **NullSpace**, which tries to implement Hierarchical Learning structure to online tutor based distance learning framework. It allows students upto a depth of 2 and each level of students gets promoted to the higher level as soon as student of that level completes the course.

Key Courses

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| • Advanced Data Structures | • Analysis and Design of Algorithms | • Database Management |
| • Compiler Design | • Micro-processors | • Digital Design |
| • Programming in C | • Advanced Python Programming | • Programming in PHP |

Skills

- **Languages:** Java, C, C#, Python, PHP, JavaScript, HTML5, CSS
- **Technologies:** Django, Django REST Framework, Android, BackboneJS, Flask
- **Operating System:** Linux, Unix

Co-Curricular Activities and Positions of Responsibilities

- Member Technical Staff at Ordell Ugo
- Member of the Core Organizing Committee of Aatmatrisha 2015, one of the biggest techno-cultural fests in Karnataka.
- Head of Web Development at Aatmatrisha.
- Represented PESIT in the International Debating Competition organized by Gujarat National Law University at Gandhinagar, Gujarat
- Represented PESIT in the National Debating Competition (MS Ramaiah Memorial Parliamentary Debate) conducted by MS Ramaiah Institutions at Bangalore.
- Worked as the Class Representative of my batch during the academic year 2013-2014.
- Social volunteer at CSI Christ Church, Chikballapur.