T.K. Prashanth

Resumé

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Objective

- To apply my knowledge and skills in attaining proficiency on a corporate platform. I advocate the usage of technology to contribute to the improvement of human life and solve urban development problems.I strive for diligence and provide an innovative edge to both research and professional projects and hope to learn both culturally and academically from the experience.

Education

2013–2016
B.E. Computer Science , *4th year*, PES Institute of Technology, Banashankari,Bangalore.
CGPA: 9.32

2011–2013
Pre University College, *Miranda Composite Pre University College*, Bengaluru, *91.4%*.
Passed with distinction

1999–2011
High School, Frank Anthony Public School, Bangalore 560008.
92.00%

- Ranked 16 in the All-India Consortium of Medical, Engineering and Dental Colleges of Karnataka Exam in 2013
- Ranked 161 in the State Level Common Entrance Test Exam in 2013

Publications

- Tarun Sharma, Susheel Suresh,Prashanth T.K.,Dinkar Sitaram., Subramaniam V., Nirupama M.,"Towards Quantifying the Amount of Uncollected Garbage through Image Analysis", The Indian Conference on Computer Vision, Graphics and Image Processing,India. ICVGIP-2016.
- Tarun Sharma, Susheel S.,Prashanth T.K.,Tarun S.,Uthej Mopathi,Rugwed Mahamune,"Real Time Video Content Based Contextual Advertisement",International Journal of Computer Science and Information Technologies, ACEIT-2016.

Projects

TargetZIKA: Disaster Situation Detection and Risk Preparedness For ZIKA Virus

○ Guides: Dr. Ramesh Jain, Dr. Ahmed Esmin, Dr. Siripen Pongpaichet and Mengfan Tang

Developed a Disaster Situation detecting framework using Eventshop and a mobile phone app using Krumbs to generate microreports and aggregate heterogeneous multimedia datastreams to combat the ZIKA epidemic in Brazil using situation modeling.

Geospatial Interpolation Analytics Operator in Eventshop

○ Guides: Dr. Ramesh Jain, Dr. Siripen Pongpaichet and Mengfan Tang

Developed the Datasource Interpolation operator for increasing the accuracy of the geospatial interpolation operator of the Eventshop tool, by increasing the number of spectral features learnt from the semi-structured heterogeneous data streams .

Swacch-Bharat Image Analysis

○ Guides: Dr. Dinkar Sitaram and Dr. K.V.Subramaniam

Developed an image analysis pipeline to estimate the metric volume of complex structured objects, specifically garbage dumps, using AlexNet, Structure from Motion and 3D Reconstruction.This project undertaken by a 9 member team is aimed at the Swacch Bharat Project in India.

Hierarchical Data Analysis using Multilevel Modeling

○ Guides: Dr. Kavi Mahesh (Dean of Research at PES University), Dr. I.K. Ravichandra Rao and Dr. K.N. Seetharamu

Enhanced prediction and knowledge analytics of hierarchically structured data to explain the conglomerated role of Impact factors, H indices, SJR ranks etc. on the number of citations and references a research article receives using Multilevel Regression.

P-Comet

○ Guide: Dr. A. Shrinivas

A social networking platform used for the collaboration and discussion of academic projects and a student recruitment service for universities. Implemented as a part of Microsoft Innovation Lab, Summer Fellowship , I was the Chief back-end designer and Project Integrator in a team of 6 members.

IPL - Match Prediction Analysis

○ Guide: Dr. Dinkar Sitaram

Built an IPL cricket match prediction system which accurately predicts results based on player skills and past data of players taken from CricInfo- ESPN. Done as the Big Data course project

Ontological Analysis using Property-Graph Modeling

○ Guide: Prof. Channa Bankapur

Modeling Road traffic data from the traffic dataset of United Kingdom (2012) using a graph database engine , Neo4j.

Online Invoicing Service

○ Guides: Prof. Vinay Joshi

Our course project where we developed an online framework for helping startups and companies use our paid invoice designing and custom and non custom made template purchasing and online designing service.

Bootloader

○ Guide: Prof. Preet Kanwal

Built a customised bootloader as a part of my Compiler Design course project for virtual machine execution.

Stock Market Analysis

○ Guide: Dr. Shrinivas Murthy

An offline data analytics project hosted locally to retrieve useful knowledge from a sample stock market dataset on the Bombay Stock Exchange.This project was completed as part of the Database Management Systems course.

Intellibot

A Line-following collision-avoiding robot constructed in a 3-man team under the JED-I (Joy of Engineering and Design) Project Challenge .

CityCleaner

A phone app for Windows Phone OS 8 which enhances the connection between mayor/municipal and Bangalore residents by broadcasting the domestic problems in the area of residence and hence provides for a swift handling of the issue by the authorities. This was our entry to the Ayana hackathon-2014

Areas of Interest

○ Big Data Analytics:Artificial Intelligence and Machine Learning (Image, Speech and NLP).
○ Image Processing, Computer Vision and Computer Graphics
○ Web Development and Information Security
○ Urban Development

Skills

Programming Languages	Python,Java,C,PHP,SQL,Scala,RubyonRails,Matlab,R,Javascript,C#
DBs and Other	AsterixDB,MySQL,MongoDB,postgres,Neo4j,Hadoop,Apache Spark

Research Experience

Internships

- Check out my homepage PrashanthTk.github.io for the list of awards

Corporate Intern, SAP Labs India. Starting from January 2017. .

Research Intern, *Project:"TargetZIKA". Research Advisors: Dr. Ramesh Jain, Dr. Ahmed Esmin, Mengfan Tang and Dr. Siripen Pongpaichet* , Social Life Networks Lab, Donald Bren Hall ICS, University of California, Irvine.
June 2016 - August 2016.

Research Intern, *Project: "Swacch Bharat Image Analysis". Research Advisors: Dr. Dinkar Sitaram and Dr. K.V. Subramaniam* , Cloud Computing and Big Data, PESIT, Bangalore.
August 2015 - March 2016

Research Intern, *Project: "Hierarchical Data Analysis". Advisors: Dr. Kavi Mahesh, Dr. I.K. Ravichandra Rao and Dr. K.N. Seetharamu*, Knowledge Analytics and Ontological Engineering (KAnOE), PESIT, Bangalore.
June 2015 - December 2015.

Summer Research Intern, *Project: "P-Comet". Advisor: Dr. A Shrinivas*, Student Nokia Developer, PESIT, Bangalore.
June 2014 - August 2014.

Positions held:

Judge, #code 2016 , Hackathon sponsored by IEEE and Microsoft.

Member of Technical Staff, Microsoft Innovation Lab .

Captain and Manager, P.E.S. University Football Team.

Captain and Manager, P.E.S. University Hockey Team.

Student Committee Head, Infini International Sports Fest.

Academic Awards

- Secured a rank of 1312 in the 10th National Science Olympiad.
- Placed 6th in the Titan Genius Kidz National Arithmetic Championship
- Won 2nd place in the National Science Day Extempore Speaking Competition held at ISRO.
- Reached the Silver Level in the Meritus Scholarsips 2009 conducted at the National Level.

–>Felicitated by Ace Creative Learning for:

- Best Outgoing student in 2012-13
- Outstanding Performance by ranking first in the COMED-K Exam in the college with a National Rank of 16.
- Outstanding Performance by ranking first in the Common Entrance Test in the college with a State Rank of 161.

○ Outstanding Performance by ranking first in Physics in 12th Board exams.

Community Service

○ I periodically donate blood at the Rotary Bangalore Blood Donation Camps.

○ I periodically donate blood at the St. Johns Medical College Donation Camps.

Involvements, Awards and Achievements

○ Won V.T.U. South-Zone State Level Inter Collegiate Football Tournament in Karnataka State for PESIT ,twice in 2014 and 2015.

○ Volunteered at IYM India to teach basic science, uses of computers and technology to underprivileged children.

○ Won the Rotary Club Annual debate competition conducted at the Inter-School Level.

○ Won the Autumn Muse St. John's Inter College Hockey Championship for PESIT and Runners Up at the G.S. Randhawa Memorial Tournament.

○ Won the St. Germains Quiz and InQuizitive Inter School Quizzes .

○ Won the Bangalore South Zone V.T.U State Level Inter Collegiate Hockey Tournament and also went on to win the State Level V.T.U Inter Zonal Hockey Tournament in 2015.

○ Won the Samarpana India 10km Run - 2016.

○ Won gold in 200m,4x100m and football, silver in long jump and 100m in the DCFL Annual Sports Meet in 2013.

○ Have actively participated in organising Hackathons and Workshops for Student Nokia Developer, Microsoft Innovation Labs and the Computer Science Department of PESIT and am the Core Organiser for events like Ayana, HashCode, Incito - Ideathon etc.

○ Have played regularly in the State A-division Hockey League for Primrose HC in the Centre-half position.

○ Our Internship project completed when I was in my first year of engineering got selected for Eximius , the Investors' Meet conducted by IIM, Bangalore, in which we participated.

○ FAPS Alumni association felicitated me with the Most Outstanding Student Award in 2011.

○ I am an active athlete, an amateur soccer and hockey player, a sprinter, middle distance runner, play chess, table-tennis and basketball at a non-professional level.

Languages

○ English

○ Hindi

○ Kannada

○ French and Japanese (basic level)