PRASHANT SINHA

PS

Developer

WEB

0xc0d3.pw

github.com/prashnts

INFO

prashant@ducic.ac.in

(091) 99 1013 4045

New Delhi, India

11 August 1996

RESEARCH INTEREST

My primary research interest is in Machine Learning, Data Science, Statistics, Systems Biology, and Bio Inspired Systems. The scope of my projects also include Pervasive Computing, Reality Mining, and Computer Vision.

SKILLS

Beginner ●●●●● Expert

Development

Python	●●●●●
CSS / SASS	●●●●
Swift	●●
JavaScript	●●●●
CoffeeScript	●●●
PHP	●●●●
C++	●●●

Graphics & Designing

Illustration	●
Print Media	●●
CAD/CAM	●●●
User Interface	●●●
PCB (Eagle CAD)	●●●●

Misc.

Sci. Computing	●●●●
LaTeX	●●●
Data Visualisation	●●●
Server Management	●●●●
Electronics - Prototyping	●●●

EDUCATION

Cluster Innovation Centre
University of Delhi
2013 – 2017

Undergrad

B.Tech. (IT and Mathematical Innovations)
Major: Information Technology
Minor: Mathematics, Systems Biology
Curriculum Highlight:

Introductory Biology	Probability & Statistics	Algorithms & Data Structure
Genomics & Proteomics	Ordinary & Partial Differential Equation	Computational Linguistics
Genetics	Numerical Methods	System Arch. & OS

EXPERIENCE

Agora Events Ltd.,
London, UK
February 2016 – Present

Technical Engineer

Machine Learning
Web Development

Event aggregation and Recommendation

In this ongoing project, I am responsible for designing and building a scalable server and API for aggregation, categorisation, and recommendation generation of events from various sources.

Website: https://joinagora.com/

Design Innovation Centre,
University of Delhi
June – August 2015

Summer Internship

Machine Learning
Time Series Analysis
Signal Processing

Human Activity Recognition from Acceleration data Under Naturalistic Conditions

The goal of this project was to develop a system for recognition of low level human activities, such as Walking, Running, Sitting, etc., using a single tri-axial accelerometer time series. The undertaken challenge of this system was to effectively solve the recognition task

irrespective of the location of sensor on human body.

Using supervised learning method, we trained a Random Forest Classifier using feature vectors obtained via our model. We were able to produce an accuracy of 95% through our model.

The publication for this work is currently under process.

West College, Scotland
14 – 19 July 2015

Workshop

Game Development

Game Development Workshop under UK-India Education and Research Initiative

University of California, Santa Cruz and Stanford
January – May 2015

Research Associate

Data Scraping
Data Processing

Aspiring Researcher Challenge

As a research associate, I was part of the team which was responsible for developing a large, online experiment to study the wisdom of the crowd where I formulated the algorithm for scraping and formatting raw data off multiple crowdfunding platforms.

Publication: "Investigating the 'Wisdom of Crowds' at Scale", ACM UIST 2015, Charlotte, NC.

Website: https://wisdomofcrowds.stanford.edu/web/

Survaider, New Delhi
January 2015 – February 2016

Developer and UI/UX Designer

Backend and REST API
Client Interface
Analytics

Survaider Web App and Survey Builder

Development of web app backend and REST API in Python using Flask and MongoEngine ORM.

Design and development of the frontend. Technology stack includes usage of CoffeeScript, BackboneJS, SASS, and Socket.IO for realtime content.

Website: http://survaider.com

Dev. Repo: https://github.com/Prashnts/survaider-app

Cluster Innovation Centre, University of Delhi
January 2015 – Present

Academic Project

Network Analysis
Computational Biology
Mathematical Modelling

Modelling and Network Analysis of Intronic miRNA Mediated Gene Expression Regulation

In this ongoing project, we've developed a mathematical model for gene expression regulation via intronic micro RNAs. The model is based on emperical data and experimental observations at IGIB.

As a part of study, we've also generated a miRNA - mRNA target network using various available databases.

Autonomi, Cluster Innovation Centre, University of Delhi
September 2014 – Present

Volunteer

Responsibilities include maintainance and development of the web portal, website and online presence of the organization.

IamSME of India, PHD Chamber of Commerce, DUCIC eBusiness Circuit
June - August 2014

Summer Internship

TwoDotSeven

Developed an open-source and modular ERP system and API sub-system.

Also performed various administrative activities including

mangement of teams, projects and tasks at the DUCIC eBusiness Circuit.

Website: https://github.com/PrashntS/TwoDotSeven/tree/master

Laboratory for Pattern Engineering, University of Delhi
February 2014 — December 2015

Worked to build a classification system for geospacial features between texts originated in different continents. Other responsibilities have included design and development of several web portals, graphic designing, media and publishing tasks.

Research Associate

Updated: April 22, 2016