

Gopi Krishnan R

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OBJECTIVE To build a holistic and pioneering career in research based on applying and improving machine learning techniques to solve existing problems in software defect prediction.

EDUCATION **M.Sc Ultra Large Scale Software Systems** **4.15/4.3**
Queen's University, Canada
(1st year student)

B.E Computer Science and Engineering **8.176/10**
Anna university, India
(3rd in Class)

Higher Secondary **87%**
G.K Shetty Hindu Vidyalaya, Chennai, India

SKILLS **Programming Languages** Python, R, JAVA, C
Databases Hadoop, Spark, DB2
Operating Systems Linux/Unix, Windows

AREAS OF INTEREST **Machine Learning, Defect Prediction, Deep learning, Software Analytics, Artificial Intelligence**

PUBLICATIONS **The Impact of Using Regression Models To Build Defect Classifiers**
Gopi Krishnan Rajbahadur, Shoawei Wang, Yasutaka Kamei, Ahmed E. Hassan
Accept in Mining Software Repositories (MSR) 2017.

EXPERIENCE **Queen's University - Software Analytics and Intelligence Lab, Role: Graduate Research Assistant, Duration: Jul 2016 – Present**

- Working under supervision of Dr. Ahmed E. Hassan on improving software defect prediction practices using machine learning techniques
- Researching actively on data characteristics and its impacts on various families of machine learning techniques
- Also, researching on applicability of advanced deep learning based techniques to improve defect prediction models

Queen's University, Role: Teaching Assistant, Duration: Jan 2017 – April 2017

- Explain queries to students on various systems of artificial intelligence and any doubts in the course material
- Evaluate and grade student's projects based on Cyc and Nengo.

- Evaluate in-class quizzes

UST Global, India, Role: Data Scientist, Duration: Sep 2015-June 2016

- Analyze and generate insights from transactional data using supervised and unsupervised learning techniques
- Developed a model to predict customer loyalty and forecast their next repeat to the site
- Actively Researched and developed novel techniques for clustering mixed-type, large volume data

Innominds Software, Role: Data Science Engineer, Duration: Nov 2014 – Jul 2015

- Worked across the data pipeline – Data acquisition, cleansing, preparing, modeling
- Involved in development of platform for enabling automated data analytics
- Involved in development/coding of stand-alone, generic machine learning algorithms

CSC India, Role: Programmer Analyst, Duration: Jul 2012 – Oct 2014

- Worked in Development, maintenance and support of Mainframe/COBOL jobs for an American insurance client
- Fixing mainframe jobs running in production within critical time window
- Implement regression based model for abend prediction in Mainframe systems

Sulekha.com, Role: Research Assistant, Duration: Jun 2012 – Jul 2012

- Developed a score computation model for 7 million users to determine potential candidates for targeted marketing

PROJECTS

Clustering Continuous and Categorical data with hybrid distance metrics

Developed a clustering algorithm using combination of hamming and Euclidean distance with agglomerative clustering approach to find intuitive customer islands within high-dimensional customer data

Data Preparation for complex analytics

Automating data preparation, imputation, outlier detection, data cleansing, feature scaling, regression fitting in a distributed framework using R and python with Hadoop streaming on large data sets.

Generic Scraping Bot

Developed a generic scrapper which can scrape data from any website (Inclusive of dynamic, static and form contents), clean the data and make it available for learning algorithms.

Mobile Application in Impact sectors [MAIS]

Impact Sector 1 mKARSHAK:

A J2ME mobile client application that detects the pigment change in the crops and matches them with the plant diseases index on the server side and help the farmers with the remedies.

Impact Sector 2 Asian PPG:

The client application makes use of the camera in the mobile phone to capture the exact color of

the automobile and send it Over the Air to the Color Bank fixing an appointment for the client for painting.

Draw Passwords

A password system that allows users to draw patterns and thereby renders most conventional password cracking methods inefficient owing to complexity of sample space.

Virtual Classroom

A three dimensional, role playing - virtual learning environment, simulating the actual classroom. The class room was made available online along with peer to peer communications enabled in both text and voice capacity.

AWARDS & ACHIVEMENTS

- Demonstrated Mobile Application in Impact Sectors at **Indian Science Congress (ISC-2011)**.
 - President-Computer Society of India- SKR Student Chapter (2011-2012).
 - **Best outgoing student (2008-2012)** - SKR Engineering college.
 - Villgro 'My Idea' **winner** for best innovative idea.
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REFERENCES Available on Request
