Swarun Krishnamoorthy

M.S (Computer Science) Graduate Student

CONTACT INFORMATION

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EDUCATION

Master's of Computer Science *Sep 2015-Jan 2017*

University of California, Irvine

- **CGPA:** 3.63/4
- **Coursework:** Algorithm Design, Machine Learning, Information Retrieval

Dual Degree Masters (B.Tech + M.Tech) in Electrical Engineering *2009 – 2014*

Indian Institute of Technology, Madras Chennai, India

SKILLS

Programming Languages : Python, C++, C, Bash, Java, SQL, HTML, R
Softwares/Libraries : NumPy, Pandas, MongoDB, OpenCV, MATLAB

PROFESSIONAL EXPERIENCE

Software Engineer Intern, Google, Mountain View *Jun 2016-Sep 2016*

Team: Auction Signals (AdWords)

- Worked on building a Nano-from-Macro (NfM) model for computing the long-term monetary impacts of ads blindness induced by a single ad impression.
- Worked on porting the entire NfM data analysis pipeline from R to Python (model is currently in production and will be live-tested on a sample of public users over the next 6 months)

Software Engineer, AOL Adap.TV, Hyderabad *Jul 2014-Aug 2015*

Team: Forecasting & Optimization

- Winner, AOL Adap.TV Hackathon 2014 - Wrote an application that enables content publishers to add third-party real-time bid optimization engines.
- Implemented a forecasting algorithm for predicting website quality and advertisement viewability on third party websites based on historical viewability info.

Internship - Gaana.com, Times Internet Ltd, Delhi *May-Jul 2013*

- Prototyped a web-application that streams music off a user's various cloud-file service accounts like Dropbox, Skydrive, Google Drive.
- Worked with the Gaana.com UX/UI team in designing the Gaana 3.0 iOS and Android apps, which have had close to 50 million installations[†]

[†] https://play.google.com/store/apps/details?id=com.gaana

ACADEMIC PROJECTS

Human Activity Recognition using Smartphone Accelerometer Data *UC Irvine*, Fall 2015

- Created a Stacked Autoencoder based ML classifier that automatically learns relevant features and classifies human actions (walking, running, lying down, walking upstairs, sitting, standing).
- Our classification engine had a f1-accuracy score of 98 percent which was higher than most physical metrics-based classifiers.

Page-Rank Based Textual Search Engine *UC Irvine*, Jan-Mar 2016

- Crawled the UCI Computer Science website and implemented a PageRank based textual search engine on a 34000 size document set. (NDCG score = 0.53)
- Created data collections in MongoDB to populate and retrieve tf-idf scores for all non-stopwords

Vectorization Methods in Standard Loops *UC Irvine*, Mar-Jun 2016

- Discovered the appropriate vectorization techniques to vectorize over 120 loops from Doom 3D's source code achieving an average **speedup of 165 percent** on the loop set.

SCHOLASTIC ACHIEVEMENTS

Secured an **All India Rank of 542** (from over **400,000 candidates**) in the Joint Entrance Exam for admission to the Indian Institutes of Technology **(IIT-JEE 2009)**.

Represented **Team India** at the **South East Asian Regional Computer Confederation International Schools Software Programming Contest 2008** (SEARCC ISSPC 2008)

Winner, ACM Online Programming Contest at HackUCI 2015, UCI's annual Hackathon