

## RESUME

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## EDUCATION

<b>B.TECH - COMPUTER SCIENCE AND ENGINEERING*</b> <u>SRM INSTITUTE OF SCIENCE AND TECHNOLOGY</u>	<b>9.14 CGPA**</b>	<b>July 2015 - May 2019</b>
<b>12<sup>TH</sup> - HIGHER SECONDARY CERTIFICATE – CBSE</b> <u>ASAN MEMORIAL SENIOR SECONDARY SCHOOL</u>	<b>94%</b>	<b>July 2014 - May 2015</b>
<b>10<sup>TH</sup> - SECONDARY SCHOOL CERTIFICATE – CBSE</b> <u>ASAN MEMORIAL SENIOR SECONDARY SCHOOL</u>	<b>9.80 CGPA</b>	<b>July 2012 - May 2013</b>

\*Merit Scholarship Student \*\*CGPA calculated till 7<sup>th</sup> semester

## WORK EXPERIENCE

**INTERN – DATA SCIENCE AT TATA CONSULTANCY SERVICES** **June 2018 - August 2018**  
(Paid Internship)

- Researched, planned and developed a personalized product recommendation engine from scratch, to be deployed as a micro service for ecommerce shopping cart applications.
- Did detailed research, including studying research papers and evaluated types of recommender systems.
- Trained, tested and developed a production ready recommender system using Tensorflow, sklearn, numPy, pandas, sciPy, Flask, Flask-PyMongo and MongoDB (NoSQL). It was built on Cosine similarities between TF-IDF vectors in vector space representation algorithm for content-based filtering combined with Matrix Factorization model using WALS algorithm to optimize the loss function for collaborative filtering.
- Collaborated with the apigee and Amazon Alexa teams to integrate the output of the recommender system to an Amazon Echo device.

**INTERN – SECURITY ENGINEERING TEAM AT AUJAS NETWORKS PVT LTD** **June 2017 - July 2017**  
(Paid Internship)

- Worked on data analysis and data visualization for network security engineering applications.
- Developed applications to integrate with security intelligence and event management software like Splunk and IBM QRadar using Python and JavaScript.
- Developed a Splunk app to integrate with Java server. Wrote Python client script for Java server using Google Protobuf as the intermediate data exchange format. Added script to Splunk using the Splunk interface to generate various events and alerts. Parsed the data from these event and alert logs using Regex for visualization as pie charts in the Splunk app dashboard for further analysis. Also built the configuration page for the Splunk app using XML.
- Worked on an app involving integration with REST API endpoints of the QRadar database and visualizing parsed data as pie charts and bar graphs on dashboard using Python Flask, Jinja2 and JavaScript.
- Wrote a pure C program for a Linux system to obtain various hardware information like MAC address of hard disk, network interfaces like Ethernet, processor manufacturer, speed, number of cores and more, while being cross-version and cross-distribution compatible.

## RESEARCH EXPERIENCE

(Please click title to view details of project on Github)

- [Undergraduate Thesis - Reinforcement Learning \(Ongoing\)](#) **December 2018**  
Thesis focusing on improving performance of DQN based reinforcement learning (RL) agents in sparse-reward environments. Proposing a novel damped sinusoidal equation to perform exploration decay instead of linear epsilon decay by a constant factor in previous DeepMind and OpenAI research.

## PROJECTS

(Please click title to view details of project on Github)

- [Internship Project - Recommender System for Ecommerce](#) **July 2018**
- [McKinsey predictive analysis of insurance renewal and revenue maximization](#) **July 2018**
- [Blur detection on CERTH dataset using Neural Network](#) **May 2018**
- [Grid removal using OpenCV](#) **May 2018**
- [Gender recognition by voice using kNN](#) **January 2018**
- [Banknote authentication using decision trees](#) **January 2018**
- [Diabetes prediction using Logistic Regression](#) **January 2018**
- [Diabetes prediction using Naïve Bayes](#) **January 2018**
- [Iris plant species prediction using kNN](#) **January 2018**
- [Big Data - Apache server logs analysis using Pig and Python](#) **October 2017**

## COURSES & CERTIFICATIONS

(Please click title to view certification)

- **[Deep Learning Specialization, created by deeplearning.ai, taught by Andrew Ng \(5-course\)](#)**
  - [Sequence Models, created by deeplearning.ai, taught by Andrew Ng](#)
  - [Convolutional Neural Networks, created by deeplearning.ai, taught by Andrew Ng](#)
  - [Structuring Machine Learning Projects, created by deeplearning.ai, taught by Andrew Ng](#)
  - [Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization, created by deeplearning.ai, taught by Andrew Ng](#)
  - [Neural Networks and Deep Learning, created by deeplearning.ai, taught by Andrew Ng](#)
- **[Machine Learning, created by Stanford University, taught by Andrew Ng](#)**

## PROGRAMMING & OTHER SKILLS

**Core:** Algorithms & Data Structures - **Data Science:** Machine Learning | Neural Networks | Python | TensorFlow | Keras | numPy | scikit-learn | sciPy | openCV | pandas | matplotlib | Octave | Scilab | Pig Latin - **Others:** Java | C++ | C | JavaScript | Node JS | Django | SQL (MySQL) | Flask | Flask-PyMongo | NoSQL (MongoDB) | JSP | Java Servlets | Jython | XML | JSON | Google Protobuf | Google Collab | Kaggle Kernels | Firebase | SSH | Vagrant | Oracle VM | VirtualBox | ParseHub | Kimono | AWS Tools | AWS Route 53 | IBM QRadar | Splunk

## AWARDS & ACTIVITIES

- Ranked in top 10% of registered competitors in McKinsey Analytics Online Hackathon - 20<sup>th</sup> - 22<sup>nd</sup> July 2018.
- Awarded merit scholarship for pursuing B.Tech in Computer Science and Engineering - 2015 - 2019.
- Won outstanding performance award for 'Most Innovative Team' during Insight 2014 organized by TCS.
- Won 3<sup>rd</sup> prize in Chennai District Chess Association tournament in 2011.

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