

Abhiram R

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EDUCATION M.Tech in Computer Science Sep 2012 — Jun 2014
R.V.C.E, Bangalore
Score - 75%

M.Tech FINAL SEM PROJECT (Internship project at Intel) –

Title: Workload Characterization using Machine Learning

Description: Using sample workloads, extracted hardware metrics and used machine learning techniques on these metrics to train and test future workloads for classification based on resource usage.

Team Size: 1

Technologies used: Unix, Python, R, C ,Openstack

IDE used: Terminal (Vim editor)

B.E in Computer Science Jun 2007 — Jun 2011
Bangalore Institute of Technology, Bangalore
Score - 73%

B.E FINAL SEM PROJECT –

Title: Implementation of an AJAX based Web Application that provides recommendations from a log file using Clustering (Data Mining).

Description: Using a sample log file, we generated clusters of related data based on certain criteria and predicted recommendations for further queries (as keywords) from the user based on past searches as indicated by the log file and created clusters.

Team Size: 4

Technologies used: Java, HTML, AJAX, MySQL

IDE used: Eclipse

WORK EXPERIENCE Blue Jeans Network April 2016 — Present
Senior Software Engineer

- Working as a Senior Developer in the Outlook Addin team .
- I'm an independent contributor driving the end-to-end development of the Outlook Add-In for Blue Jeans.
- Responsibilities include - Writing code to add features and improvements for the add-in, Debugging field issues, Packaging builds, Educating customer support about usage of the product
- This is used by 40% of Blue Jeans customers (basically anyone who uses MS Outlook to schedule BJNI meetings).

Technologies used -

- C#, Javascript
- Shell Scripting
- GIT, Jenkins (for Version control, Builds etc)

Blue Jeans Network Jan 2015 — Mar 2016
Software Engineer

- Worked as Software Engineer in the Middleware team, developing scripts for automating REST APIs that the Front-end will consume.

- “Go-to” guy for any configuration related issues in my team.

Technologies used -

- Java, Python
- Shell Scripting
- GIT, Jenkins (for Version control, Builds etc)

[24]7 Innovation Labs

Aug 2014 — Jan 2015

Software Engineer

- Worked as an automation engineer developing scripts using Selenium for front-end automation.

Intel India Technology Pvt. Ltd.

Jul 2013 — Jul 2014

Research Intern

- Learnt and configured Openstack in the initial phase of internship.
- Successfully completed a project titled “Workload Fingerprinting” which uses machine learning – specifically, boosting - to identify future workloads based on hardware characteristics exploited by training workloads.
- Scripts written use R, Python, Unix shell scripts and C.

Target Corporation India Pvt. Ltd.

Jul 2011 — Jun 2012

Trainee Software Engineer

- As a fresher, adapted quickly to the business practices at Target.
- Was actively involved in a project [PROMO] in which I developed and owned UNIX shell scripts, which were stable and integral throughout the project. I also developed DataStage (ETL Tool) jobs which were required for said project.
- Organized extra-curricular activities at Target for the Annual Roadshow event and several other events as well

PUBLICATIONS

Rahul Khanna, Mrityika Ganguli, Ananth S Narayan, Abhiram R and Piyush Gupta , "Autonomic Characterisation of Workloads using Workload Fingerprinting" in *IEEE International Conference on Cloud Computing in Emerging Markets (CCEM)*, 2014, pp. 1-8.

INTERESTS

HOBBY PROJECTS, HACKATHONS:

- Design of an English grammar checker and corrector using Natural Language Processing – (WIP)

- I'm Using the Stanford NLTK parser to recognise parts of speech in a sentence and find contextual relationship between words occurring together, so that a correct grammatical sentence can be identified.

Team Size: 1

Technologies used: Python (Libraries – NLTK, Kivy)

- Sentiment Analysis on Logs to determine if positive or negative feedback was provided using Machine Learning - This was a Bluejeans Hackathon project . At its core it uses the Naive Bayes algorithm, with a small amount of improvisation to incorporate double negation scenarios.

Team Size: 1

Technologies used: Python

- Smokescream – Attempting to prevent smoker-relapse, one tremble at a time

- This was a Inmobi Hackathon project . It was an Android app that detects tremors in hand movement while handling the mobile phone and presents a situation that will try

and assess if the person is suffering from shivers because of a cigarette craving and if yes, alerts a person in his trusted list to call him up and talk him out of it.

Team Size: 2

Technologies used: Java (Android SDK), Bootstrap (CSS)

- ThirdEye – Indian Currency detection for the Blind

- This was a Societe Generale Hackathon project .

It was an Android app that scans the Indian currency note placed in front of it, scans the features using the SURF algorithm and speaks out the denomination if it's present in the training set. (Denominations used – 10,50,100,500,1000 INR).

- Additionally, gesture recognition and voice recognition was added to actually trigger the app in question followed by the object to be scanned

- For this Hackathon, the voice recognition was localized to “currency”, but it's scalable for all objects.

Team Size: 4

Technologies used: C++, Java (Android SDK), Bootstrap (CSS) – Code for SURF was ripped off of the Internet but sufficiently understood for debugging and the practical purpose at hand.

ADDITIONAL COURSES TAKEN / ONLINE ACTIVITY:

- Coursera – Machine Learning by Andrew N.G (Stanford)

- I'd learnt ML concepts followed by Bagging and Boosting in a very haphazard manner during my project at Intel. This course helped me fill in the blanks.

- ProjectEuler – - 41 out of 522 problems.

- GitHub - <https://github.com/abhiii5459> (Github Page - <http://abhiii5459.github.io/>)

TECHNICAL SKILLS (overview) :

- Programming & Scripting Languages learnt: C, C++, R, Python, Java (Core+Android), HTML, CSS, JavaScript ,UNIX Shell Scripting

- Languages actually interested and/or proficient in : Python, R, CSS, Javascript ,Unix, Java

- DBMS packages: Oracle SQL, MySQL

- Operating Systems: Windows XP, Windows 7,Linux - Ubuntu, Fedora

- Familiar with Openstack configuration (Grizzly, Havana and Icehouse)

HOBBIES:

- Solving crosswords and jumble.

- Coding and Debugging (CodeChef, SPOJ, ProjectEuler etc.)

- Reading novels, cycling , Writing poems (<http://abhiii5459.github.io/poems-main.html>)

REFERENCES

References available upon request.