ABHIJITH C.

abhijithc.ml | abhijith4m0505@gmail.com | github.com/abhijith0505 | (+91) 9738982441 | linkedin.com/in/abhijith0505

EDUCATION

Sir. M. Visvesvaraya Institute of Technology, Bangalore - *B.E*   AUG 2014 - July 2018

Computer Science Engineering | Current aggregate : 81.9%
Electives - Pattern Recognition, Artificial Intelligence, Cloud, Grids and Clusters

Udacity - *Android Developer Nanodegree*   JAN 2016 - JAN 2017

Kendriya Vidyalaya No.2, Bangalore - *Class 10th and 12th*   2003 - 2014
  - Class 10th result : 10 CGPA | Class 12th result : 95%

EXPERIENCE

InMobi - *Research Analyst in ML and AI Team*   JULY 2018 - PRESENT
  - Handled analysis to derive insights about how metrics are affected by the visual appearance of call-to-action buttons in an advertisement.
  - Developed deep convolutional neural network models to predict user interaction based on advertisement (images), multiple architectures developed and evaluated.

InMobi - *Data Science Intern*   FEB 2018 - JUNE 2018
  - Automation of 'insights' derivation for plots in brand campaign reports.
  - Experiments to evaluate SIFT (Scale-Invariant Feature Transform) in detecting duplicate advertisements and deployment of the same.
  - Built and experimented with variations of CNN based Siamese Network in detecting duplicate advertisements.

Robert Bosch Engineering and Business Solutions Limited - *Machine Learning Intern*
  - Using deep learning models for diabetic retinopathy, meibomian and glaucoma detection.
  - Testing and training using various architectures like Inception-v3 .   AUG 2017 - DEC 2017

Google Summer of Code 2017 - *with Python Software Foundation*   MAY 2017 - AUG 2017
  - GSoC student with *Italian Mars Society* (sub org. Under PSF).
  - Using Hexoskin smart shirt (biometric signal sensors) as the device used to monitor astronauts.
  - Integrating the the smart shirt (the sensors) with Tango-Controls Server.

Indian Institute of Science, Bangalore - *Project Intern*   JAN 2017 - FEB 2017
  - Built a web dashboard using Python Flask (Client-Server Application) for the NELL system (a semantic machine learning system developed by a research team at Carnegie Mellon University).
  - Used SQL for storage and Bootstrap for the frontend.

FreeCharge, Bangalore - *Engineering Intern - DevOps*   JULY 2016 - SEPT 2016
  - Intern in the SRE team.
  - Wrote Scripts to automate many internal NOC procedures and AWS management tasks.
  - Controlled Monitoring tools, e.g Zabbix.

Freelance Problem Setter at HackerEarth and Doselect   JAN 2016 - MAY 2017
  - Algorithmic competitive problem setter.

Grinions, Bangalore - *Software Development Intern*   JAN 2016 - MAR 2016
  - Worked on developing the alpha version of Grinions platform, helped build the front and backend components of the platform which included responsive layout along with cloud hosted services.
  - Used Python Flask as the framework for building the backend.

PROJECT EXPERIENCE

Biometric Signal Sensor's Interface for Astronauts (Google Summer of Code Project)
- GSoC 2017 project under *Italian Mars Society (sub org. Under Python Software Foundation)*
- This project mainly revolves around configuring biometric signal sensors
- Using Hexoskin smart shirt as the device used to monitor astronauts
- Integrating the the smart shirt (the sensors) with Tango-Controls Server
- SQLAlchemy ORM for the database

GoChat
- An universal linux application that let's it's users to chat with one another through the terminal
- Packaged using Snapcraft and hosted on AWS (Serverless - AWS Lambda), for the communication

Minesweeper
- This project demonstrates a simple game of Minesweeper. Minesweeper is a single-player puzzle video game
- Built using OpenGL Graphics Library (freeGLUT) in C++

Textify
- An android application that extracts text from images and screenshots
- Used FreeSpaceOCR API

Listview-Snapshot (Android Library)
- Android library that converts listViews to Snapshot images
- Made with Android Studio and compatible with Versions API 15+

AuReader
- Android Ebook reader that plays music based on the emotion of the context
- Used Natural Language Processing(NLP) library, synesketch

Various other projects, all open sourced and can be found on GitHub.

TECHNICAL SKILLS

Platforms: Windows, Linux   **Libraries & Frameworks:** Flask, Keras, Tensorflow   **Databases:** SQL, MongoDB
Technologies: Android, Web, Amazon Web Services   **Others:** Git/Github, Docker
Computer Languages: C, C++, JAVA, Python, HTML & CSS, JavaScript, Shell, Perl, PHP

PUBLICATIONS

- A Novel Double Backtracking Approach to the N-Queens Problem in Three Dimensions. *International Journal of Computer Applications* 169(5):1-5, July 2017
- Deep Learning Segmentation and Quantification Of Meibomian Glands. Submitted to Biomedical Signal Processing and Control - Nov 2018

AWARDS/ACHIEVEMENTS

- 10 CGPA in class 10 AISSE Board Exam (2012)
- 95% in class 12 AISSCE Board exam (2014)
- Top 1.5% in class 12 AISSCE Board exam (2014)