Karthik Sridhar | Penultimate Year, Computer Science

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Professional Profile

Hardworking and inquisitive student who is always ready to challenge the status quo. Keen on Data Sciences and Machine Learning, I have experience in Data Modelling, classification, algorithm development and program automation. Besides, I have been learning C# with .NET Core for development in order to build simple Content Management Systems and REST APIs.
I am looking for an internship that will allow me to utilise my problem-solving skills and programming knowledge in order to gain valuable experiences for a better future.

Education

MEng Computer Science
University of Bristol – 2017-2021 (expected)
Completed 2 years with First Class in Functional Programming, Computer Architecture, Software Product Engineering and Data Sciences.
Current Grade: 2:1

High School Examination
The Orchid School, Pune – 2015-2017
Achieved an overall score of **90%** with an aggregate of 93% in Physics, Chemistry and Math.
Achieved a school high of 95% in Computer Sciences.

Technical Skills

Proficient: Python, C#, Java, Git and SQL
Familiar: HTML & CSS, JavaScript, C/C++, Haskell and XC
Frameworks: Flask, SpringBoot, Tensorflow/Keras, .NET Core and Android
Tools: AWS Elastic Beanstalk, Heroku, Circle CI, Camtasia (Video Editing), Adobe Xd

Technical Experience

August 2019 – September 2019

Zone Digital, London
Student Intern

Outline
Worked as a Data Analyst in the first half and a .NET developer in the latter to study and improvise various departments of the client's website and data.

Key responsibilities

- Cleaned and normalised data to create Funnel Charts for various workflows for the client's website with data from Google Analytics.
- Wrote a general algorithm in Python and Regex to filter and anonymise feedback form data.
- Developed a Web application using ML.NET to cluster above feedbacks to simplify the process of improvisation. Applied concepts of K-Means Clustering and TF-IDF in C# to achieve the same.

July 2017 – August 2017

Persistent Systems, Pune
Software Development Engineer Intern

Outline
An above par aptitude test score and my passion for Machine Learning earned me a place amongst five others to take part in Persistent's six-week learning programme to eventually extract and deliver vital information from medicinal data.

Key responsibilities

- Worked with high level datasets of medicinal drugs, symptoms and diseases provided by the client.
- Used big data tools like Apache Spark and Python's matplotlib to visualise the data.
- Applied concepts of Logistic Regression to given section of data where classification was binary.

Additional Certificates

Machine Learning – Stanford University, Coursera

Introduction to Data Analytics with AWS – CBT University, Udemy

Data Science and Deep Learning with Python – Sundog Education, Udemy

Python (Language Proficiency) and Problem Solving (4 stars) - HackerRank

Key Projects (all projects can be found on karthiksridhar.me/projects.html)

Bristol Buddies – An android application cum website that helps the incoming international students connect with current students of similar interests. Used Android Studio for the UI; SpringBoot, MySQL and Retrofit to make the REST API; Oracle Cloud to host the website and Circle CI for continuous integration. As part of the Software Engineering course, we were awarded a first for our result and contribution.

Pynenka – A simple twitter bot that scrapes live football scores and tweets them back to respective mentions. Used Twitter's Tweepy and Python's BeautifulSoup, hosted the app on Heroku for full automation. Currently working on enhancing the features and performance of the bot.

Mammographic Mass Analysis – Performed a binary (malignant/benign) classification accuracy test on the public mammographic masses dataset provided by UC, Irvine. Applied several different supervised Machine Learning techniques such as Decision Trees, Random Forest, KNN, SVM, Naïve Bayes and Logistic Regression and compared the results. Eventually used Keras to create an Artificial Neural Network for the same. Achieved an average accuracy of 80%.

Spam Classifier – A spam/ham text classifier using scikit-learn's ML libraries as an experiment with Natural Language Processing (NLP). Used Python's Flask micro web framework to write the program and deployed it on Heroku.

KarthikSridhar.me – My personal website. Used HTML-5, CSS-3, JavaScript along with Bootstrap and jQuery to build my website from scratch. Hosted the website on GitHub Pages.

Voluntary Work

July 2016 – August 2017

Khushiyaan, Pune
Poverty Alleviation Volunteer

A couple friends and I formed a group to collect old clothes, toys and left-over foods to distribute to the needy, especially the children in order to bring a smile on their faces. I was successfully part of five such occasions and always returned with full satisfaction

May 2015 – June 2015

Art of Living org, Pune
Organising Volunteer

Took part in Art of Living's self-development programs and gave back to the community by doing Seva (selfless service) whilst organising a recreational event.

Links

References available on request