SAURABH MATHUR

https://saurabhmathur96.github.io saurabhmathur96@gmail.com

EDUCATION

VIT University, Vellore

2014-present

- · BTech student, School of Information Technology and Engineering
- CGPA: 8.97 / 10.0
- Expected Year of Graduation: 2018
- Relevant Coursework: Artificial Intelligence · Linear Algebra · Numerical Analysis · Theory of Computation · Database Systems · Operating Systems · Data Structures and Algorithms

PUBLICATIONS

- U. Chandrasekhar and Saurabh Mathur. *Decision making using fuzzy soft set inference system.* In Proceedings of the 3rd International Symposium on Big Data and Cloud Computing Challenges (ISBCC 16'). Springer International Publishing, 2016.
- P. Karthik, M. Saurabh, and U. Chandrasekhar. *Classification of text documents using association rule mining with critical relative support based pruning.* In 2016 International Conference on Advances in Computing, Communications and Informatics (ICACCI), Sept 2016.

WORK EXPERIENCE

Microsoft, Bangalore

May 2016-July 2016

- Summer Internship
- Worked on the problem of automating movie recommendations
- Developed a hybrid algorithm with performance comparable to top 20 of the Netflix Prize participants

graVITas Web Team, VIT

April 2016–September 2016

- Developed web-portals to automate all the transactions at VIT University's annual technical festival
- The portals handled traffic from over 30,000 users

Riviera Events Team, VIT

September 2016-February 2017

- Designed a system to streamline the management of events at VIT University's annual cultural carnival
- Lead a team to implement the designed system.

PROJECTS

Neural Chatbot 2017

- An implementation of the sequence to sequence chat-bot model as proposed in "A Neural Conversational Model".
- A research paper suggesting some modifications on the model is currently under review at Journal of Organizational and End User Computing (JOEUC)

 Happy and you know it A deep residual network that detects emotions from pictures of people's faces The network is 66.5% accurate; Human accuracy is 65 ± 5%. 	2017
Clickbait Detector • A deep neural network that detects clickbait headlines with 90% accuracy • Powers a chrome extension that tags click-bait on Social Media.	2017
 Holmes Text Generator A recurrent neural network that generates quotes character by character, in the style of Arthur Cona. Doyle's Sherlock canon. Provides two sampling mechanisms - Greedy Search and Beam Search 	2017 n
 Digit Classification A comparison of image classification techniques on the standard handwritten digits benchmarking Modified National Institute of Standards and Technology (MNIST) database A web-based demonstration allows users to provide input in their handwriting Developed in python using the Tensorflow computation framework 	2016
 Cat v/s Dog classifier A neural network that classifies pictures of pets as pictures of cats and pictures of dogs Implemented by fine-tuning the final block of a pre-trained VGG16 network, provided by University Oxford's Visual Geometry Group Allows a user to visualize the fine-tuned layer of the network 	2016 y of
Machine Learning Implementations of well known Machine Learning Algorithms in pure Python and Java	2016
 Web Crawler A simple but powerful web crawler Leverages the multi-threading capabilities of the Java Virtual Machine along with the fast storage operations in MongoDB to crawl the web and build a graph of links 	2015
File Compressor • An object-oriented implementation of the Lempel Ziv Welch (LZW) universal lossless data compress algorithm in C++	2015 sion
• Advanced: Python • JavaScript • Node.js • MongoDB • R	

- Intermediate: Java · C# · TypeScript · C · C++ · MATLAB · Bash · SQL · LATEX
- Basic: Lisp · Prolog · Ruby · Lua · Scala