

Vishwanath Seshagiri

AI RESEARCHER · TECH ENTHUSIAST

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Summary

It's often said that only the craziest people pursue careers in Neuroscience or Advanced Computer Science and here I am trying to do both. Known to strike up conversations with virtual strangers discussing at depth the bridge that connects these vastly different worlds and everything between I've traveled light years past what would be considered obsessed. A binary junkie to say the least.

Work Experience

UMM Digital

PYTHON DEVELOPER, DATA ENGINEER

Chennai, India

Sep. 2018 - Present

- Working on a Portal for aggregating customer reviews from various social platforms, and understanding them.
- Using Celery for Review Aggregation, and Spacy for Extracting Information from the Reviews.
- Responsible for implementing RAFT Consensus Algorithm, during server failures.

Warhorse

CODING COURSE TRAINER, BACKEND DEVELOPER

Chennai, India

Aug. 2017 - June 2018

- Structured and Taught Coding Course during Summercamp.
- Worked on a Learning Management Platform to help the students learn courses at their own pace.
- Implemented Collaborative Filtering based Recommender System for Test Taking Module of Warhorse.

UMM Studios

SUMMER INTERN

Chennai, India

May 2016 - July, 2016

- Implemented Viola-Jones Object Detection Framework to track the Movement of Eyes using User's Webcam
- Integrated the module with existing codebase

Waran Research Foundation

RESEARCH TRAINEE

Chennai, India

July 2015 - March 2016

- Worked on Supercomputer Benchmarking Algorithm
- Implemented the Algorithm in C++, and tested on in-house server.

Projects

YouTree: A Visualization Paradigm of Statistically and Textually Similar Videos

Chennai, India

APPEARED IN *ACM Proceedings for The 7th International Conference on Intelligent Computing and Applications*

Aug. 2017-Sep. 2017

- Configured Data Pipelines for Aggregating 500,000+ data points using YouTube Data API.
- Performed Exploratory Data Analysis, and tf-Idf on the data obtained to identify the topics discussed, and further found cosine similarity based on content
- <https://gitlab.com/thebrahminator/Youtube-View-Predictor>

TweetIt: Analyzing Topics for Twitter Users to garner Maximum Attention

Chennai, India

APPEARED IN *ACM Proceedings for 2nd International Conference on Machine Learning and Soft Computing*

Sep. 2017-Nov. 2017

- Obtained the Tweet Data based on the Hashtag, and profiled it to understand the psyche of the user.
- Wrote an indexing algorithm for clustering the user profiles based on similar topics in their tweet.
- Compared the topics with trending topics retrieved from BBC News API, and wrote an algorithm to rank the users in political domain.
- <https://gitlab.com/thebrahminator/Twitter-Topic-Detection>

Hippo: Hippocampus Simulator

Chennai, India

AN APPROACH TO MODEL THE HUMAN HIPPOCAMPUS ONTO A COMPUTING MACHINE

Aug. 2017 - Present

- Implemented the Pre-Integration and Lateral Inhibition taking place in Dentate Gyrus, and interfaced it with Hopfield Networks.
- Refactored the codebase to make it process matrix with order in the millions parallelly.
- Continue to work on the CA3 region, by making use of Python's Parallel Processing Libraries.

IBLP: Instruction Based Logic Processing for Robots

Chennai, India

USED FOR CREATING A SYSTEM THAT ENHANCES THE ABILITY OF ROBOTIC AGENTS TO DECIPHER INSTRUCTIONS

Jun. 2017 - Present

- Worked on the PoS Parsing of input based on the base paper, and benchmarked it with LTLMOP Codebase.
- Responsible for Compiling the results of the work and writing the paper, to be sent for publication.

Dalabull: A Fuzzy Logic Based Stock Market Simulator for Behavioural Analysis

Chennai, India

USED FOR CONDUCTING AN EVENT "DALA BULL" AS A PART OF UNIVERSITY'S TECHNICAL FEST. KURUKSHETRA

Dec. 2016-Jan. 2016

- Built the application in Python (Flask) with Redis DB, for giving introduction to Stock Market for Laymen.
- Wrote an algorithm for generating the news based on Fuzzy Logic and used Weiner Process to determine the price fluctuations of a stock at any given point of time.
- Regulated the transactions based on current state of news and ticker price, and configured pipelines to handle a load of more than 200 concurrent requests.
- Developed an RNN for generating news, trained it on Economic Times, and Business Line Dataset.

Font2Vec: Learning Low Dimensional Representation of Fonts

Chennai, India

SUBMITTED TO AAAI POSTER 2019

Aug. 2018 - Sep. 2018

- Used Python's PIL Module for generating Alphabet Images, to be used for learning.
- Conceptualised an Autoencoder based Model for learning the features of the data.

Multi instrument music track generation using GANs

Chennai, India

FINAL YEAR UNDERGRAD THESIS

Dec. 2017 - March. 2018

- Implemented a GAN for Music Generation based on MuseGAN
- Suggested enhancements on the existing model, which were incorporated into the original repository.

BRGAS: Blind Assistance and Road Guidance System

Chennai, India

GOT SELECTED FOR NATIONAL FINALS AT MICROSOFT CODE.FUN.DO 2017

Mar. 2016 - Apr. 2016

- Used CLMTRACKR Library to track the facial muscles of humans and classify them under 4 emotions.
- Used Tesseract Library to build an OCR System for reading Road Signs.
- Integrated the application with RPi and used espeak library for converting textual prompts to audio.

Honors & Awards

2017 **Winner**, Microsoft Code.Fun.Do Chennai Regionals

Chennai, India

2017 **Finalist**, Microsoft Code.Fun.Do India National

Hyderabad, India

2015 **Winner**, Pragyan National Quiz, conducted by NIT Trichy

Trichy, India

2016 **Winner**, Quiz On The Beach Biz Quiz, conducted by TA Pai Institute of Management

Chennai, India

Education

College of Engineering Guindy, Anna University

Chennai, India

B.E. IN COMPUTER SCIENCE AND ENGINEERING

Jul. 2014 - Exp. Jul. 2018

- Founding Member of Quizzers Anonymous, The official quiz club of the university.
- Served as Student Director of CEG Tech Forum, the Technical Club of CEG.

The Hindu Senior Secondary School

Chennai, India

SENIOR SECONDARY SCHOOL

Mar. 2012 - Mar. 2014

- School Pupil Leader for the academic year 2013-14

Extracurricular Activity

CEG Tech Forum

Chennai, India

STUDENT DIRECTOR

Apr. 2017 - Present

- Headed the Industrial Relations committee of my university's Technical Forum
- Responsible for integrating Industries' needs and projects that are done by students.
- Work on industrial grade projects involving data science and machine learning
- Leading a team of 5 students.

CEGLUG (CEG LINUX USERS GROUP)

Chennai, India

CORE MEMBER

Aug. 2015 - Present

- Took classes on latest technologies for students of the university.
- Worked on multiple projects, and guided students in the same. Responsible for teaching 6 developers students.

Quizzers Anonymous, Quiz Club of CEG

Chennai, India

FOUNDING MEMBER AND EXTERNAL RELATIONS HEAD

Jan. 2015 - July 2018

- One of the founding members of the club, aimed at imparting wide range of knowledge to different sections of the college.
- Proposed various marketing and network activities to raise awareness, along with getting industry support for executing these activities.