



SPARSH AMARNANI

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Professional Summary

I am a Computer Engineering student from Mumbai University Enthusiastic about information systems, data science, and analytics. I've worked and build projects on web development, algorithm analysis and game development previously.

Education

Expected in 2022

Bachelor of Technology, Computer Engineering, Vivekanand Education Society Institute Of Technology (VESIT), University of Mumbai, - Chembur

- Currently Studying 4th year, CGPA: 8.08
- Member of IEEE chapter

2018

Secondary High School Diploma, RADAV, Mumbai University - Bhandup

- Percentage : 83
- Elective in Computer Engineering

04.2016

High School Diploma, Srimati Sulochnadevi Singhania School - Thane

- Percentage : 92
- Elective in Home Science

Skills

SKILLS

Technical competency

- Object Oriented C++, OpenGL and STL.
- Functional C Programming
- Core Java
- Core Python with Discord API, Flask API, and NLTK and Deep Learning, MoviePy module, Tensorflow and Tensorflow Hub, Pandas, Numpy.
- HTML5
- CSS, Bootstrap, and Sass

- JavaScript with JQuery and Chart.js libraries.
 - PHP
 - Jupyter Notebook and Google Colab
- #### **Soft Skills**
- Analytic thinking
 - Teamwork
 - Time Management Presentation

Work History

06.2021 - Current

Data Science Intern

Reliance Industries Limited - Remote, India

- Applied data transformation ,statistical and EDA techniques to classify outlying spot freight rates to spot correlative variables using pandas,

11.2019 - 01.2020

numpy ,scipy and excel.

- Used cross validated machine learning classification models to predict outlying data points with the scikit learn and find relations behind time lagged features and spot freight rates.
- Created reports to summarize our results and solutions to business team and upper management.

Front End Developer Intern

Shelar Academy - Mumbai, India

- I collaborated with 21 employees to build a business website from the ground up where we learnt to integrate no-code software into a web application. I was awarded a letter of recommendation by the CEO.
- Website : <https://www.shelaracademy.com/>

Certifications

- USC San Diego Coursera: Algorithm Toolbox
- Python for Beginners Udemy
- IBM Coursera : Python for Data Science, AI & Development
- Java 12 Certified Programmer from Study Circle

Projects

TECHNICAL PROJECTS

Leave and Attendance Management System with HTML5, Bootstrap, JQuery, Laravel, MySQL

It's a system build for students, teachers, and attendance administrators to automate the attendance administration and provide students with easy access to subject attendance analysis tools to gain insight into their academic performance. Teachers are allowed to mark attendance for their lectures as classes roll numbers. Students can also request leaves for a given time, and teachers are allowed to build

Tower of Hanoi in OpenGL Build in Visual Studio using the GLFW library, GLM library, and OpenGL API, and C++ standard library.

It is a game that can be played at any difficulty with multiple setting options demonstrating my game design skills along with OpenGL's technical capabilities.

Sentiment Analyzer Using Convolutional Neural Networks and BERT Tokenizer in Tensorflow :

With a 80% Test accuracy, 8 layers, 6,362,013 parameters all trained on the Gargantuan sentiment 140 data set. This model can comfortably predict any sentence thrown at him and classify the sentiment behind it as positive or negative.

Automated Subtitle Generator

Build in Google Colab and Visual Studio using MoviePy, Speech Recognition, Pydub module and Google's Speech to Text API, the software takes in a video and returns a subtitled video.

Query Bot

This is a MOOC chatbot designed in Tensorflow to deliver domain specific answers to users queries on a specific course enlisted on the website. It uses 4 deep learning models to classify queries, generate answers, maintain open domain conversations and search queries in the q and a forum(in case answers are found there). A web api build in django it leverages aws gpu's to speed up its response generation and aws speech to text api to create video transcript for its knowledge base.

NON-TECHNICAL PROJECTS

Query Bot (Group) : A Presentation on MOOC Chatbot in Making

https://docs.google.com/presentation/d/1uuGZGW18p6n3-6xBGfLWa1g54dPWJY8r9sV_Vvpdjw/edit?usp=sharing

Pandemic Economics in The Age of Globalization : A Presentation on the German Response

https://www.canva.com/design/DAD9tbZaesg/Xl9kREwU4YfzRYZj84dSlA/view?utm_content=DAD9tbZaesg&utm_campaign=designshare&utm_medium=link&utm_source=sharebutton

Co Curricular Activities

- Attendee at VCET Hackathon 2021

Extra Curricular Activities

- Member of College Debate Team and participant at several debates
- 3rd price at Expressio 2020.
- Amateur Squash

Professional Links

LinkedIN

<https://www.linkedin.com/in/sparsh-amarnani/>