

K Mahesh BHARADWAJ

Software Developer | Natural Language Processing | Deep Learning

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📍 MaheshBharadwaj
i Male, Born on 23 March 2000 (Age : 21)
📍 Chennai, India



SUMMARY

I am in my senior year studying *Computer Science and Engineering* at SSN College of Engineering. I am interested in the fields of **Machine Learning and Deep learning** and applying them in real world applications. I am a team player, good at solving challenging problems and strive for excellence in programming practices.

EDUCATION

SSN College of Engineering, Chennai	BE. CSE	CGPA : 9.23(SEM VI)
PS Senior Secondary School, Chennai	12 th Standard	96.2%
PS Senior Secondary School, Chennai	10 th Standard	10.0 CGPA

EXPERIENCE

Present April 2020	Undergraduate Research Assistant (Part Time), SOLARILLION FOUNDATION, Chennai <ul style="list-style-type: none">> Working as a part of a team to research in Natural Language Processing and Computer Vision based tasks> Guiding new members in their project phase> Server Management team head Keras Scikit-Learn Tensorflow Git
July 2021 May 2021	Technology Summer Analyst (FXLM), CITI CORP., Chennai <ul style="list-style-type: none">> Wrote script to migrate required versions of packages from legacy repository to current repository using powershell scripting.> Worked with APM software API to track the health of services and trigger warnings when thresholds are not met. APM powershell scripting

SKILLS

Programming Languages	Python, Java, C++, C, HTML, CSS, Dart
Frameworks	PyTorch, Keras, Flask, Matplotlib, Tensorflow, React JS, Node JS, flutter
Database Systems	MySQL, Mongo DB
Other Skills	Version Control Systems, Bash scripting, Powershell scripting
Integrated Development Environments	Visual Studio Code, Eclipse, Code Blocks

PUBLICATIONS

SIGN LANGUAGE TRANSLATION USING MULTI CONTEXT TRANSFORMER 2021

 [GitHub repository](#)

Developed and implemented a *Multi Context Transformer* architecture that solves the Sign Language Translation Task by operating on batched video segment representations called *context vectors*, to capture various temporal dependencies present between the frames to accurately translate the input signs.

Will be presented at 20th Mexican International Conference on Artificial Intelligence, Mexico City, Mexico and published in LNAI

Multi-Context Tranformer Sign Language Translation NLP

PROJECTS

MULTI-CLASS TWEET SENTIMENT CLASSIFICATION 2021

[GitHub repository](#) [Report](#)

Developed a multi class tweet sentiment classifier which achieved the best accuracy scores (0.824) using BERT and Transformer(0.733). [Link to contest](#)

Transformer BERT Multi-Class Classification

SSN MUN 2021 CHIT PASSING WEB-APP & WEBSITE 2021

[GitHub repository](#)

Developed a website which supports real time chit passing amongst 200 authenticated delegates and provides details about the MUN. Hosted on digital ocean at the domain ssnmun.in (currently offline)

Flask Flask-login HTML Bootstrap JavaScript

CLICKBAIT CLASSIFICATION 2021

[GitHub repository](#)

Classifies headlines as being clickbait or not in various languages

Transformers Word2Vec Classifier

SUDOKU SOLVER FROM IMAGES 2020

[GitHub repository](#)

This website accepts images of sudoku, extracts the data using CNN and Image Processing techniques, solves the sudoku and displays the result.

CNN Image Processing Flask HTML CSS

PANEKA - THE DISCORD FOOTBALL STATS BOT 2020

[GitHub repository](#)

This bot serves real-time scores, fixtures and league standings of major european football clubs on demand! Written using *discord.py*, the bot is currently hosted on *heroku*

Python3 discord.py Requests API asyncio

PERSONAL WEBSITE 2020

[GitHub repository](#) [Website](#)

Personal website written using vanilla css currently live at <https://maheshbharadwaj.github.io>

HTML5 CSS3 JavaScript

EXPENSES TRACKER MOBILE APPLICATION 2019

[GitHub repository](#)

This app aims to track the expenses incurred daily. Provides a bar chart depicting the amount of money spent in the past 7 days as a percentage of the total amount spent in that period. Designed based on the *google Material Design Theme*

Flutter SDK Dart SQLite Android Studio





REAL TIME ENCRYPTION DECRYPTION SIMULATOR 2018

[GitHub repository](#)

This projects aims to simulate the real time encryption of files sent across a network using public key principles and uses a running key cipher.

C++ Win32 API

COURSES COMPLETED

Social Network NPTEL	 Certificate	2020
DeepLearning.AI TensorFlow Developer Coursera	 Certificate	2020
Deep Learning Specialisation Coursera	 Certificate	2020
Version Control with Git Coursera	 Certificate	2020

EXTRA CURRICULAR

- National Service Scheme** 2018-2020
Cleaning the college campus
De-silting a pond in Chennai
- TCS IT Quiz 2018** 4th Place in City Finals
- IIT-M Saarang General Quiz 2017** 2nd Place