# AMOGH MISRA

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LinkedIn Profile, Github Profile

## PROFESSIONAL SUMMARY

A high-energy student currently finalizing a bachelor's degree in Computer Science and prepared to contribute abilities to Internship roles while further developing acquired skills and gaining real-world experience. Highly organized, responsible, and well-versed in **Python and C++.** Positively impact **Machine Learning, Web Development,** and **Big Data** operations with top-notch communication and critical thinking skills.

## WORK HISTORY

**Wynk Music (Gurugram) –**
**Internship (Jun 2020 – Jul 2020)**
- Meta-Data enrichment by application of various models to improve the tags of songs
- Built Neural Network models to predict the mood of a particular song and suggest others of a similar kind.
- Also built models to predict the appropriate genre of a particular song and suggesting others of a similar kind.

## ACCOMPLISHMENTS

**SMO using MapReduce: Jan 2020 – Jun 2020**
- Github Repository
- Parallelization of Spider Monkey Optimization Algorithm is performed to get better and more accurate results when dealing with a huge amount of data in less time
- Random initialization of the population variables is done, and other decision variables are used to determine the results
- The platform used: Hadoop along with HDFS (Hadoop Distributed File System), MapReduce architecture, and Python

**THE THIRD EYE: Jul 2019 - Jan 2020**
- GithubRepository
- Project to simplify the lives of visually impaired people by helping them to live their dream life
- Trained the model based on Inception v4 methodology on a dataset
- Created a web-app using Tensorflow.js which helped in implementing the trained model

**STRING PLAYGROUND: Feb 2019 - Apr 2019**
- GithubRepository
- Image classification is applied for string recognition and then the text recognized is subjected to string matching algorithms like KMP algorithm, etc.
- Python is used for the code and Keras library for image recognition and then tested on MNIST dataset

**FRIEND FINDER: Oct 2018 - Dec 2018**
- GithubRepository
- A social media website consisting of special features like friend suggestions, posting pictures or videos It included the algorithm of predicting "People you may know" through user's friend list
- Developed using CSS, PHP, JAVASCRIPT and then run and tested on the XAMPP server.

**PAYTEZZ: Aug 2018 - Oct 2018**
- GithubRepository
- An e-wallet with features like checking bank-balance, two-tier security for every transaction, adding or paying money to another user, etc.
- Coded using C++ while using File Data structure as the data structure to store all data requirements

**Gesture Controlled Snake: Jul 2019 - Aug 2019**
- Github Repository
- Snake Game, played via hand gestures
- This is a Java based simple game of Snake, which uses Machine learning and Neural Networks to recognise hand gestures in live video using Keras and Python.
- And performing the said task after image recognition.

## SKILLS

- Data Structures and Algorithms
- Machine Learning
- Data Analytics
- C/C++Programming
- Java
- Python
- HTML, JavaScript, PHP
- Database Management System (DBMS) andSQL
- Hadoop, MapReducePrograming
- OpenCV Essentia, Keras, Tensoflow
- English Proficiency

## EDUCATION

**TRAINING – Machine Learning and Artificial Intelligence Coding Blocks (Offline) – (June 2019 – July 2019)**
- Certificate link
- 6 week offline course consisting of Data Science and Machine Learning algorithms, followed by Neural Networks and Image processing projects, and Knowledge about Open Source projects was covered

**B. Tech (Hons.), Computer Science (2017 - 2021) JAYPEE INSTITUTE OF INFORMATIONTECHNOLOGY**
- CGPA: 7.9/10

**XII (Senior Secondary), Science Year of Completion: 2017 CBSE Board (Study Hall Lucknow)**
- Percentage: 89.40%

**X (Secondary) Year of Completion: 2015 CBSE Board (Study Hall Lucknow)**
- CGPA: 9.8

## ADDITIONAL INFORMATION
- Completed JP Morgan's Software Engineering Virtual Experience internship. Certificate Link