# AMIR SAHIL SHAIK

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## EDUCATION

2016 - 2020

**COMPUTER SCIENCE AND ENGINEERING, B.TECH.**
at Gitam Deemed University

📍 Visakhapatnam, India

## WORK EXPERIENCE

September 2020 - Present

**MACHINE LEARNING TRAINEE, PART-TIME**
at Graviti Pharmaceuticals Pvt Ltd

📍 Hyderabad, India

- *Shadowed the Project Manager to understand the tablet inspection system used at the company.*
- *Surveyed the requirements needed to incorporate a machine learning algorithm on a piece of machinery that isolates defective tablets.*
- *Assisting in the designing of the tablet rejection algorithm using OpenCV to process images.*

June 2020 - Present

**FULL STACK WEB DEVELOPER, FULL-TIME**
at Your e-School, M/s Canicus Professional Services Pvt Ltd

📍 Hyderabad, India

- *Designed and developed Video conferencing tool with Django for back-end, and HTML and CSS for front-end in a team of 5.*
- *Created Web Administration Panel using Code Ignitor PHP framework.*
- *Acquired a deeper understanding of Code Ignitor for back-end development for dynamic websites.*
- *Learned PHP coding in 2 weeks.*

## INTERNSHIP

May 2019 - August 2019

**INTERN, ANDROID UI AND WEB DEVELOPMENT**
at Greenline Labs Pvt Ltd

📍 Visakhapatnam, India

- *Produced about 20 posters in Adobe Illustrator and Photoshop for online and offline company promotions.*
- *Designed the user interface and themes for the Android App offering an Employee portal for Startup Accelerator India.*
- *Built the front-end skin of the Admin Panel; Implemented using HTML, CSS, Bootstrap*

April 2018 - June 2018

**INTERN, GRAPHIC DESIGN AND VIDEO CONTENT PRODUCTION**
at Techimax IT Services Pvt Ltd

📍 Visakhapatnam, India

- *Generated 25+ posters in Adobe Illustrator and Photoshop for website use and social media promotions.*
- *Composed 60+ course videos for the company's teaching modules.*
- *Worked in a team of 6 on the development of an algorithm for implementing virtual reality to control robots used for doing risky repairs.*

## RESEARCH STUDY

July 2020 - August 2020

**SOFT COMPUTING FOR INTELLIGENT DATA ANALYSIS USING GENETIC ALGORITHM**
Published on Test Engineering and Management

- *Comparison of Hard Computing algorithms to soft computing algorithms to establish comparative accuracy.*
- *Soft computing techniques like Fuzzy Logic, Artificial Neural Networks and Genetic Algorithm for outier detection.*
- *Genetic Algorithm is used for detecting the outliers.*
- *Java and JDK 8 is used with the help of Netbeans IDE.*
- *Achieved 99.99% accuracy in detecting outliers with Genetic Algorithm.*

## PROJECTS

June 2020

**IMAGE CARTOONING USING OPENCV**
Members: 1

**Objective:** *To utilize OpenCV to transform any live image of a person into a cartoon version.*
- *Obtained a detailed understanding of OpenCV through blogs and YouTube videos.*
- *Used OpenCV package in the python code to modify the image according to the requirement.*
- *Imported EasyGUI module to build a simple user interface.*
- *Read and stored images from the computer using the ImageIO.*
- *Applied Matpotlib to plot the points on the images for performing the edits.*

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| June 2020 | ● | **FLIGHT FARE PREDICTION** |
| | | Members: 1 |

**Objective:** *To predict the airfare of different airline companies between any two given locations for specified dates.*
- *Constructed a web application using Flask with server implementation using Gunicorn.*
- *Deployed the application in Heroku, online deployment platform.*
- *Gathered Flighware Prediction data set from Kaggle with 10683 rows and 11 columns of data.*
- *Imported necessary packages and used Scikit learn to process the data extraction and data analysis algorithms.*

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| May 2020 | ● | **FLASK BLOG** |
| | | Members: 1 |

**Objective:** *To create a website where people can share articles and blog posts relating to a variety of topics.*
- *Developed a website using HTML and CSS with Python Framework Flask to make dynamic content.*
- *Included Jinja code snippets to make the content dynamic.*

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| December 2019 - March 2020 | ● | **EMOTION BASED MUSIC PLAYER** |
| | | Members: 4 |

**Objective:** *To build an algorithm to help physically disabled people chose music according to their mood.*
- *Wrote image processing algorithms using OpenCV for training the system with 5 types of emotions.*
- *Carried out face detection using HaarCascade Classifier and Emotion recognition on the face using Fisher Face algorithm.*
- *Trained the algorithm using 16+ images of each emotion; in training phase stores a total of 8 images*
- *Conducted live testing and derived a computing accuracy of about 95%*

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| July 2019 - September 2019 | ● | **MOVIE RECOMMENDER SYSTEM** |
| | | Members: 4 |

**Objective:** *To build a movie recommender system using Hybrid filtering to predict the preferences of a user, and suggest movies to users based on these preferences.*
- *Examined research literature on the efficiency of different filtering approaches and chose Hybrid Filtering that combines Content-based and Collaborative methods.*
- *Applied K-Means clustering algorithm to separate the clusters of similar movies.*
- *Utilized Pearson Correlation similarity index to make predictions based on similar user behaviours.*
- *Calculated the Mean Square Error to identify the accuracy and achieved 95% accuracy in prediction*
- *Used the Movielens 10M data set from Kaggle.*

## POSITIONS OF RESPONSIBILITIES

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| June 2018 - July 2019 | ● | **MEDIA AND MARKETING HEAD** |
| | | ACM Student Chatper, Gitam University |

- *Supervised a team of 5 members who managed sub-teams to cover various events.*
- *Covered the events in the college by directing the camera positions and streaming into social media.*
- *Deftly resolved concerns in technical failures, and manpower issues during 20+events.*
- *Organized and delegated work to teams, achieving maximum efficiency and complete coverage for 2 college fests: Techcellence 4.0 and Techcellence 5.0*
- *Coordinated with the website management team to provide the publication materials in a short time.*
- *Assisted in the development of the event-related web pages.*
- *Designed 30+ posters for promotional campaigns in Social Media and on website.*

## CERTIFICATIONS

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| September 2020 | ● | **WEB DESIGN FOR EVERYBODY SPECIALISATION (WITH CAPSTONE PROJECT)** |
| | | University of Michigan, Coursera |
| August 2020 | ● | **HTML, CSS, JAVASCRIPT FOR WEB DEVELOPERS** |
| | | John Hopkins University, Coursera |
| August 2020 | ● | **STEP INTO ROBOTIC PROCESS AUTOMATION** |
| | | GUVI Geek Network |
| August 2020 | ● | **DEEP LEARNING** |
| | | GUVI Geek Network |
| May 2020 | ● | **INTRODUCTION TO TENSORFLOW FOR ARTIFICIAL INTELLIGENCE** |
| | | deeplearning.ai, Coursera |
| October 2018 | ● | **PYTHON FOR EVERYBODY** |
| | | University of Michigan, Coursera |

## EXTRA-CURRICULAR ACTIVITIES

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| September 2020<br>- Present | ● Created teaching content for the Chance NGO as a Volunteer. |
| July 2020<br>- Present | ● Active Volunteer at the Pilani Atmanirbhar Resource Center; Curated a course to guide teachers on how to use the Gsuite Apps for teaching online. |
| March 2018 | ● Participated in the seminar on Artificial Intelligence by Rajesh Nalla, MD of Techimax IT services Pvt Ltd., Gitam University |
| December 2019 | ● Spoke on the topic "AI is changing the world - The Bionic Eye", Departmental Seminar, GITAM University |
| August 2017<br>- May 2018 | ● Served as the Photographer and Graphic Designer, ACM Chapter, GITAM University. |
| October 2019<br>- December 2019 | ● Volunteered for the Gitam University Science and Activities Center to procure resources at low cost for various events. |

## SKILLS

● **Programming or Scripting Languages:** C, C++, Java, Python, JavaScript, HTML, CSS, SQL.

● **Databases:** SQLite, MySQL.

● **Tools:** Android Studio, Jupyter Notebook, Google Collab, Adobe Photoshop, Adobe Premiere Pro, Adobe Illustrator, Adobe XD.

● **Operating System:** Windows, Android, IOS, macOS.

● **Languages:** English (Expert), Hindi (Expert), Telugu (Expert).