Archit Jain

E-224, Palash Nivas, IIIT Hyderabad Gachibowli, Hyderabad - 500032 ℘ (+91) 9691203675 ⋈ jain.archit@students.iiit.ac.in பி Github: archit2705

Education

2016 - Bachelors of Technology - Electronics and Communication Engineering.

Present International Institute Of Information Technology, Hyderabad

2016 Senior Secondary, CBSE, St Joseph's Co-Ed School, Bhopal.

Percentage: 91%

2014 Secondary, CBSE, St. Paul High School, Indore.

CGPA: 10

Work Experience

May- Dec CVEST, IIIT-H, UNDERGRADUATE RESEARCH STUDENT.

Worked with prof. Aftab Hussain to create a smart cricket bat for training which can calculate certain parameters related to batting and is equipped with IoT capabilities.

May- Jul Sid's Farm, TECH INTERN.

Worked on development of a program used to determine the route for delivery vehicles serving hundreds of locations at once which optimised the routes by 10% on an average.

Projects

Machine Face Recognition Classifier.

Learning Classifier trained to recognise faces.

OpenCV Automated Document Detector-Cropper.

CamScanner like webapp for automated document detection and cropping for an image with a plane background.

Arduino Object Picking Robotic Arm On An Obstacle Avoiding Bot.

A fully automatic robot which can search around for objects and pick small objects with it's robotic arm and avoid larger ones automatically.

Stock **Stock Price Predictor**.

Forecasting A program for predicting future stock prices made using ARIMA algorithm and other ML techniques by using existing dataset for stock prices.

WordCloud, Sentiment Analysis on Twitter.

NLP Sentiment analysis of latest tweets to create a heat-map using developer keys and NLP libraries.

IoT Smart Cricket Bat.

An IoT and micro-controller based device to be attached to cricket bat to felicitate cricketers by gathering relevant data.

HSPICE, Variation Resistant Sizing Of MOSFET Transistor Circuits.

Al Transistor sizing for digital circuits which uses Artificial Swarm Intelligence.

Python **Python Scripting**.

A program written in python to imitate random walk problems in vmd. Also, worked with protein models and wrote programs to rotate it along any given axis in vmd.

Game Bomberman Terminal Game.

Development UNIX terminal game based on original BOMBERMAN, purely developed in python without using any external libraries and having multiple difficulty levels.

FPGA Complex Gradient Method Implementation in FPGA.

Implemented conjugate gradient method in FPGA for solving sparse linear equations.

Matlab Epoch Extraction from Speech Signal.

Program made in Matlab using single frequency filtering to extract epochs from speech signal.

Achievements

NTSE Cleared National Talent Search Exam(NTSE) in 2012.

JEE Main Secured rank in top 1% among more than 1 million candidates in JEE Mains 2016.

JEE Secured rank in top 3% among 0.2 million candidates in JEE Advanced 2016.

Advanced

Relevant Coursework

Computer Data Structures, Machine Learning, Computer programming, Computer system Organisa-

Science tion, IT Workshop, Computer Networks

Electronics Embedded Hardware Design, Digital Signal Processing, Digital Logic and Processors, Intro

to VLSI, Linear Electronic Circuits, Electronic Workshop, Principles of Semi-conductor

devices, Signal and Systems, Digital VLSI

Mathematics Discrete Mathematics, Linear Algebra, Graph Theory

Humanities Intro to Human Studies, Intro to Psychology, Intro to Sanskrit

* Courses in current semester

Technical Skills

OS Linux, Windows, MacOs

Programming C, C++, Python, JavaScript, Shell, PHP

and Scripting

Web Django, Flask, Node.js, Bootstrap.

Technologies

Electronics Arduino, FPGA, Verilog

Miscellaneous Git, Latex, MATLAB, OpenGL, Micro-controllers