EDUCATION

Program	Institution	%/CGPA	Completion
Dual Degree in Metallurgy & Materials Engineering	Indian Institute of Technology, Madras	8.23	2019
XII (CBSE)	Maharishi Vidya Mandir, Chennai	96.2%	2014
X (TN State Board)	Terapanth Jain Vidyalaya, Chennai	96.6%	2012

SCHOLASTIC ACHIEVEMENTS

- Offered a **Branch Change** (top 30 out of 840 students) at IIT Madras for strong academic performance *(2014)*
- Awarded **INSPIRE SHE Scholarship**, given to top 1% high school students *(2014)*
- Completed the Management Minor with **A** or **S** grade in all of the three course *(2017)*
- Authored **two papers** on Blockchain technology, bitcoin and its comparison with UPI *(2018)*

COURSE WORK

Mathematics	• Linear Algebra & Numerical Analysis • Statistics for Data Science	• Probability & Stochastic processes • Differential Equations
Relevant Courses	• Data Structures and Algorithms • Atomistic Modelling of materials	• Introduction to Machine Learning • Python for Data Science
Technical Skills	Python, JavaScript, TensorFlow, MS Excel, D3 library, MATLAB, Solidity, C++, HTML, CSS	

PROFESSIONAL EXPERIENCE

Crypto Analyst, Zenprivex *(May '18-July '18)*
- Received a **Pre-Placement Interview (PPI)** offer at the end of the internship.
- Used **ccxt** to create an **automated trading strategy** leveraging inter-exchange arbitrage for cryptocurrencies
- Back-tested 108token and **automated** its rebalancing. Also created a **risk-assessment profile** for 108token.
- Performed fundamental analysis on a variety of ERC20 projects such as NMR, Bloom and Augur
- Built an economic model to analyze the profitability of Bitcoin mining in the current down-market

Decision Analyst, EXL Analytics *(May '17-July '17)*
- Received a **Pre-Placement offer (PPO)** to join in July 2019, two years prior to the date of graduation
- Created a dashboard using **D3.js**, which was an upgrade on Tableau and a product requirement of **two clients**
- The proposed web-based dashboard would cut the visualization costs by **$32200** over a 5-year business cycle
- Created and integrated Sankey diagram and hierarchical bar graphs seamlessly into the dashboard

Core Intern, Vehicle Assembly and Engine Plant, Ford India *(June '16-July '16)*
- Worked on understanding the cause of Mechanical bending in Sigma Cylinder Head
- Submitted a report to revise the values of **3 elements** from the **standard process sheet** of Ford Motor Company

PROJECTS

Microstructure optimization using Predictive Machine Learning, Dual Degree project *(Aug '18-ongoing)*
- The aim is to obtain an exhaustive list of microstructures for an alloy with defined properties
- **Neural Networks** is used to improve the existing optimization models to get quicker and exhaustive results

Analytics Projects *(Jan '17-ongoing)*
- Created a **Convoluted Neural Network** model to train on sign-language dataset taken from Kaggle
- Applied **YOLO**, **YOLOv2** and **SSD** models directly from the research papers for **live object detection**
- Used **twitter API** and **nltk** to create a hashtag-based **sentiment analysis** model

POSITION OF RESPONSIBILITY

Campaign Manager, Shaastra, Technical Festival of IIT Madras *(April '16-Jan '17)*
- Mentored a team of **23** creatives responsible for online and on-ground PR and Publicity of Shaastra
- Conceptualized and executed **SYNK**, a **national scale social campaign** in which used PET bottles were collected and recycled as a substitute for brick. As a Proof of Concept, a bench was constructed in the institute

Informals Coordinator, Saarang, Cultural Festival of IIT Madras *(April '15-Jan '16)*
- Conceptualized and implemented activities for **50000+** people with interactive games all over the campus
- Mentored **70** volunteers who implemented the conceptualized ideas before and during Saarang
- Scripted and organized the Freshie Night event which was attended by over **1200** students

IDP and Sponsorship & PR Coordinator, Amalgam 2015, MME Department Fest *(April '15-Aug '15)*
- Successfully conducted IDP (Industry Defined Problem) with participation from **10** different colleges
- Helped secure a sponsorship of **INR 1.5 Lakhs**, a **x1.67** improvement over the previous edition

EXTRA AND CO-CURRICULAR ACTIVITIES

Freelancing	• **Editor-in-chief** at **indifoot**, a football app and website, since 2016 • Created Data Interpretation and Quantitative Aptitude content for Practice Mock
Social Service	• Became an **Avanti mentor**, living with 42 students preparing for IITJEE in Pondicherry • Worked on the **Installation of Solar Panels** in a Government Girls school (**EWB**)
Unique asset	**Received Internship completion certificate on blockchain as an ERC721 token, first of its kind**