

# Tushar Supe | 21F1003637

## Indian Institute of Technology Madras

✉ [Email](#)    📁 [Portfolio](#)     [LinkedIn](#)



### EDUCATION

Program	Institution	%/CGPA	Year
*B.S. in Data Science and Applications	Indian Institute of Technology Madras, Chennai	9.2/10	2023
B.Tech. in Mechanical Engineering	Visvesvaraya National Institute of Technology, Nagpur	8.12/10	2019
STD XII	Shri Shivaji College of Science, Akola	93.08%	2015
**STD X	Bal Shivaji High School, Akola	98.73%	2013

\* Achieved perfect score in 60% of the courses

\*\* Stood 2<sup>nd</sup> in Maharashtra State Board and 1<sup>st</sup> in Amravati Division in STD X examination

### PROFESSIONAL EXPERIENCE

#### Larsen & Toubro Limited, Digital Solutions, PT&D IC (Internship) (Aug'22 – Oct'22)

Topic: EV Analytics – Charge Point Operator's (CPO) Perspective

- Artificially generated data for EV charging stations to optimize grid power consumption; cleaned and modified the data as per various use cases.
- Developed a web-based dashboard for CPO which included various visualizations e.g. bar chart, line plot, sunburst chart to provide valuable insights at the descriptive and diagnostic levels.
- Effectively reduced wait time for charging, balanced the on grid & off grid power consumption to maximize the revenue and customers served.

#### Reliance Industries Ltd., Hazira Manufacturing Division, Surat (Jul'19 – Sep'20)

- Mechanical Maintenance Graduate Engineer Trainee (GET)

#### Reliance Industries Ltd., Hazira Manufacturing Division, Surat (Internship) (May'18 – Jul'18)

- Design and analysis of blower impeller for Styrene-Butadiene Rubber (SBR) plant

### PROJECTS

#### Online Support Ticket System (Jan'23 – Apr'23)

Frameworks : Python, Flask, REST API, SQLite DB, and Vue (JS)

Key features : JWT for authentication, automated email notifications, dynamic search and filter, robust API

Tools :  
Miro : To create Storyboards and Wireframes  
JIRA : To plan sprints and monitor project progress  
GitHub : For issue tracking and collaborative work  
Swagger : To design and document API  
Insomnia : To test API endpoints  
PyTest : For unit testing

Description : Students can create, edit, and delete ticket. They can include relevant attachments with the ticket. They can look for a ticket and give it an upvote to prioritize it. The support staff can resolve the tickets. Admins can validate new users' accounts and create FAQs for the most popular tickets.

#### Data Visualization for Mask Manufacturers (Feb'23 – Apr'23)

Frameworks : Python, Jupyter Notebook, Matplotlib, Plotly, Pandas, and Figma

Description : Analysed the data regarding masks such as mask features, price, reviews, and manufacturers. Carried out various visualizations to determine the most popular masks, reason for popularity, and ways to improve the quality to boost sales.

## Flash Cards Web App

(Sep'21 – Apr'22)

Frameworks : Python, Flask, REST API, SQLite database, and JavaScript with Vue

Key features : Token based authentication, report card generation, email alert notifications, and practice reminders

Description : User can create, delete, import, export flashcards and can practice anytime anywhere

## Coding Puzzles Android App

(Dec'21 – Jan'22)

Frameworks : Android studio with Flutter, Firebase cloud database

Key features : Data synced with real-time cloud database. Login, Logout, and progress reset features

Description : User needs to rearrange code lines to get desired output. User can also practice quizzes for coding languages like HTML, CSS, JS, Python, Java, SQL. App can be used anytime anywhere

## Save The Pod Python Game

(Jun'22 – Jul'22)

Frameworks : Python, PyGame

Key features : Multiple levels, User friendly game, Impressive animations and music

Description : Player needs to manoeuvre space pod to avoid meteorites while collecting stars

## SKILLS

---

**Languages** : Python, JavaScript, Java, SQL, C, Dart, Bash

**Frameworks/Tools** : Keras and TensorFlow, NumPy and SciKit Learn, Plotly, Dash, PyGame, SQLite, Flask, Vue, Flutter, Git, GitHub, Jira, Miro, Swagger, Insomnia, Arduino

**Skills** : Data Analysis and Visualization, Convolutional Neural Network (CNN), Natural language processing (NLP), Generative Adversarial Networks (GAN), Reinforcement Learning (RL), Web Scrapping

## CERTIFICATIONS

---

### COURSERA

- IBM Data Science Specialization
- AI Foundations for Everyone Specialization
- IBM Applied AI Specialization
- Applied Data Science Specialization
- Deep Learning Specialization
- DeepLearning.AI TensorFlow Developer Specialization
- Reinforcement Learning Specialization
- Python for Everybody Specialization
- Build Generative Adversarial Networks

### LINKEDIN

- Become a Data Scientist
- Become a Data Analyst
- Master SQL for Data Science
- Master Python for Data Science
- Master Excel for Data Science
- Become a Six Sigma Yellow Belt

## CO-CURRICULAR & EXTRA-CURRICULAR ACTIVITIES

---

- Implemented a Deep Convolutional GAN (DC-GAN) with TensorFlow for Digit-MNIST dataset
- Trained a deep learning classifier and localizer model for bike and plane dataset using Python, Keras and Convolutional Neural Network (CNN)
- Trained a ML model to predict IPL powerplay score for IIT Madras Cricket Hackathon 2023; currently ranked amongst top 10 on leader board
- Created an automated solver with Python and Selenium for games 'Word-Search' and 'Minesweeper'
- Scrapped case data of Covid-19 using Python and visualized hotspots with Folium