Tushar Supe

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PERSONAL PROFILE

Dedicated to data science and machine learning, proficient in Python programming, data analysis and visualization, and having 1 year of industry experience. Graduated from IIT, Madras with BSc degree in Programming and Data Science. Mainly looking for jobs in Python development, data science, and machine learning.

EXPERIENCE

Data Science Intern   Aug 2022 - Oct 2022
Larsen & Toubro Limited, Digital Solutions, PT&D IC   *Chennai, India*

- **Topic: EV Analytics – Charge Point Operator's (CPO) Perspective**
- Artificially generated data for EV charging stations to optimize grid power consumption; cleaned and manipulated the data as per various use cases.
- Created a web-based dashboard for CPO with multiple visualizations, including bar charts, line plots, and sunburst charts, to offer insightful information at both 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.
- **Technical Skills:** Python, Pandas, Plotly, Dash

Maintenance Engineer   Jul 2019 - Sep 2020
Reliance Industries Ltd., Hazira Manufacturing Division   *Surat, India*

- Worked as a Mechanical Maintenance Graduate Engineer Trainee (GET)

EDUCATION

Indian Institute of Technology   Madras, India
Bachelor of Science in Programming and Data Science   *Oct 2020 - May 2023*

- CGPA - 9.2/10
- Achieved perfect score in 60% of the courses
- **Courses:** Modern Application Development, Software Engineering and Testing, Machine Learning Techniques, Programming Concepts using Java, Database Management Systems, Business Analytics, Programming, Data Structures and Algorithms using Python, Artificial Intelligence, Deep Learning

Visvesvaraya National Institute of Technology   Nagpur, India
Bachelor of Technology in Mechanical Engineering   *Jul 2015 - May 2019*

- Graduated with CGPA - 8.12/10

PROJECTS

Online Support Ticket System 🔗   Jan 2023 - Apr 2023

- **Description :** Students can create, edit, and delete ticket. They can include relevant attachments with the ticket. They can search for a ticket and prioritize it by giving it an upvote. The support staff can resolve the tickets. Admins can validate new users' accounts and create FAQs for the most popular tickets.
- **Key Features :** JWT for authentication, Automated email notifications, Dynamic search and filter, Robust RESTful API
- Optimized performance by using database caching
- Developed web app with Agile Methodology
- Built reusable components with Vue.js
- Deployed final web app to Heroku platform

Data Visualization for Mask Manufacturers   Feb 2023 - Apr 2023

- Analysed the data regarding masks such as mask features, price, reviews, and manufacturers.
- Collaborated in a team of 5 to develop innovative ways of analysing and presenting data visually.

- Implemented advanced visualization techniques like geospatial maps, time series charts, word clouds, and tree maps with Python.
- Determined the most popular masks, reason for popularity, and ways to improve the quality to boost sales.

Save The Pod Python Game 🔗   Jun 2022 - Jul 2022

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

Flash Cards Web App 🔗   Sep 2021 - Apr 2022

- **Description :** User can create, edit, and delete flashcards. They can import, export flashcard decks. They can practice anytime anywhere.
- **Key Features :** Token based authentication, Report card generation, Email alert notifications, Scheduled practice reminders

Coding Puzzles Android App 🔗   Dec 2021 - Jan 2022

- **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.
- **Key Features :** Data synced with real-time cloud database, Login, register, and progress reset options

SKILLS

Languages	:	Python, JavaScript, Java, HTML/CSS, SQL, C, Bash, Dart
Libraries	:	Flask, Vue, PyGame, Keras, TensorFlow, PyTest, Plotly, Dash, Pandas, PyTorch, NumPy, Scikit-learn, Pandas, Matplotlib, Seaborn, Flutter
Databases	:	SQLite, Firebase Cloud DB, PostgreSQL
Tools	:	VS Code, Git, GitHub, Node, PyCharm, Jira, Miro, Swagger, Insomnia, Jupyter Notebook, Heroku, Flourish, Kumu, Figma, Android Studio, MS Office, Arduino
Miscellaneous	:	Data Analysis, Visualization, Web Scrapping, Convolutional Neural Network (CNN), Natural Language Processing (NLP), Reinforcement Learning (RL), Generative Adversarial Networks (GAN)
Soft Skill	:	Time Management, Teamwork, Presentation skills, Communication, Report writing

CERTIFICATIONS

Coursera 🔗

- IBM Data Science Specialization
- IBM Applied AI Specialization
- Deep Learning Specialization
- Reinforcement Learning Specialization

- AI Foundations for Everyone Specialization
- Applied Data Science Specialization
- DeepLearning.AI TensorFlow Developer Specialization
- Python for Everybody Specialization

LinkedIn Learning 🔗

- Become a Data Scientist
- Master Python for Data Science
- Master Excel for Data Science

- Become a Data Analyst
- Master SQL for Data Science

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 CNN
- Trained a ML model to predict IPL powerplay score for IIT Madras Cricket Hackathon 2023; Currently ranked among top 20 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