

Tushar Awadhesh Singh

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Education

Vidyalankar Institute of Technology, Mumbai, India

2017-2021

Bachelor of Engineering in Electronics Engineering; CGPA: 7.84/10.0

Relevant Coursework: Object Oriented Programming, Robotics, Digital Signal Processing, Applied Mathematics(1-4), Database Management System, Management Information System, Computer Communication Network, Internet of Thing, VLSI Design, Digital Communication, MOOCs - Machine Learning (Stanford Online), Deep learning (Andrew Ng) Algorithm Toolbox(UC Sandiego Online)

Skills

- **Languages:** Python, C++ , Java , Scala , R **Technologies:** Flask , Springboot , SQL, MongoDB , GraphQL , PySpark , Elastic Search
- **Libraries:** Tensorflow , Pandas , Sci-kit , JAX , PyTorch , Pyaml etc. **ToolsPlatform:** Git , Jenkins, Airflow, ROS, GCP, AWS , Docker , Postman , RASA Heroku , Streamlit, Hadoop

Professional Experience

Tata Consultancy Services Ltd

Mumbai, India

Software Developer

Jun 2021 - Present

- **Project Name: Bance Payment Product:** (Tech: Java, SpringBoot, SQL, Jenkins, Scripting, AWS, Python, Git, Tensorflow)
 - * Developed and deployed Payment solution packages such as Cheques, RTGS and SWIFT payments for several clients.
 - * Automated Cheques Signature verification and reduced the EER (Equal Error rate) for random forgeries to 2.4% and human intervention by 40%.
 - * Formed a chapter "Tech FM" within Organisation to Guide Interns and Executives on AI.

Tata Proengage

Mumbai, India

AI Developer

Jul 2023 - Present

- **Project Name: Alambana:** (Tech: Python, PyTorch, JAX, Langchain, AWS, Docker, Tensorflow, Llama)
 - * Working on Indias First Multilingual and multimodal Government scheme recommendation bot.
 - * Teaching NGOs women work workforce various AI tools in their daily chores.

MedTourEasy

Noida, India

Data Analyst Internship

Aug 2020 - OCT 2020

- **Project Name: Blood Donation Model:** (Tech: Python, PyTorch, Tableau, AWS, Flask, Java Script, MongoDB)
 - * Deployed a ML model for the prediction of Donor Outcome which resulted into succesful campaign.
 - * Made and integrated Analytic Dashboard using Tableau and MongoDB on Medical Facilities in several region.

Research and Projects

DC Generator(Dynamic Code Generator)|Rapid Labs (Tech: Opencv, Pytesseract, PyTorch, SQL, Airflow, Jenkins, AWS, Python, Git)

Researcher

2023

- Worked on POC of a real-time interactive tool that converts hand-drawn images to design-level code for deployment.

Calvision

(Tech: Python, Tflite, SQL, AWS, Python, Git, Tensorflow, Java, Android Studio)

Developer

2022

- Deployed an app using tflite model and android studio for on device Detection of Calories for top 50 Indian Cuisines a novel approach on weight etimation and classification.

Mentor Recommendation Web App Using ML

(Tech: Java, SpringBoot, SQL, Jenkins, AWS, Python, Git, Tensorflow)

Undergraduate Thesis, (Guide: Dr. Sheetal patil)

2021

- Made a Recommendation model with 44% better top k prediction better than the traditional Collaborative filtering Method.
- Deployed Chatbot using RASA framework trained to downstream task.

Awards & Achievements

- Tata Consultancy Services: On Spot Award from clients for Virtuoso Delivery. 2022
- Tata Consultancy Services: Fresco Miles Award for being among top 3% in in-house skills competition. 2022
- Tata Consultancy Services: Xcelerate Warrior Award for mentoring associates in upskilling. 2023
- Tata Proengage Service Award for helping NGOs. 2023
- Smart India hackathon Finalist. 2020

Extra Curricular Activities

- Tata MyPurpose(Corporate Social Wing): Beach Cleaning Drives and Upskilling of Under Privelege.; Organised TCS InQuizitive 2023 (India's Largest inter school IT quiz competition)
- NSS Volunteer: Holding Blood Donation Camps and Medical Camps ; State Level Badminton Player.