Tejas Malik

Experience in executing full life-cycle development projects; ensuring project completions within stipulated timelines, budget & quality parameters. Worked on data science projects, adept in at collecting, analyzing and interpreting large datasets for developing new machine learning/AI models and performing data science/management initiatives.

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Profile Summary

- Currently working as **Associate Professional Software Engineer at DXC Technology, Bangalore**
- Experience in full stack development like **ReactJs, HTML, CSS, Spring Boot and MongoDb.**
- Experience in architecting applications with **Algorithms, Data Structures, Machine Learning, Deep Learning and Python**
- Skilled in libraries such as **Sklearn, Numpy, Pandas, Matplotlib, Keras, Tensorflow**
- Rich experience in all phases of the **software development lifecycle** (requirements, design, development, testing, release, support), utilizing multiple development methodologies, including **Agile Model**, **Design Patterns, OOD, Extreme Programming, and Structured Programming**
- Expertise in manipulating and analyzing complex, high-volume, high-dimensionality data from varying data sources.

Academic Achievements:

- Acquired second position (School Level) in the International Olympiad of Science 2011 in Class Ninth.
- Acquired third position (School Level) in the class in International Informatics Olympiad 2007 in Class Five.
- Acquired Campus Ambassador Award 2019 from SRM Institute of Science and Technology.
- Among Top 5% in NPTEL course for Python Data Science.

Publications:

- Malik, T., Jeeva, C., Aditya, A., Singh, R.K. Controlling the variac through Arduino with remote access control using the stepper motor. International Journal of Engineering and Advanced Technology. 8 (6): 2754-2758. 2019
- Malik, T., Bhardwaj, A., Saxena, H.K. Automated traffic light system with roadblocks using IR sensors and Arduino. International Journal of Engineering and Advanced Technology. 9 (1): 3092-3095. 2019

GitHub Link:
https://github.com/TejasMalik

LinkedIn Profile:
https://www.linkedin.com/in/tejas-malik-8696ab160/

Core Competencies

Python	★★★★
Java	★★★★
MongoDB	★★★
Machine Learning	★★★★
Natural Language Processing	★★★
Deep Learning	★★★
MySQL	★★★
ReactJs	★★★

Certifications

Java with Data Structures and Algorithms - Coding Blocks

Programing with Python, Data Structures and Algorithms - NPTEL IIT Madras

Python with Data Science - NPTEL IIT Madras

Lean Six Sigma Green Belt – VarSigma

Dell EMC Associate Data Science and Big Data Analytics v2 – Dell EMC

Machine Learning – Andrew Ng, Stanford, Coursera

Neural Networks and Deep Learning – deeplearning.ai, Coursera

Work Experience

Associate Professional Software Engineer – DXC Technology **July 2019 – Till Date**

Key Result Areas:

- Working closely with business and engineering teams to encourage statistical best practices with respect to experimental design, data capture and data analysis
- Building ETL pipelines for complex projects on Data Science, Machine Learning, Deep Learning
- Interacted with the **Domain Expertise to understand the Business Requirements** of the ML and DL projects
- Participating in Data Preprocessing Techniques in order to make data useful for creating Machine Learning Models
- Building various regression and classification algorithms by using various Sklearn libraries such as Linear Regression, Decision Trees, Naïve Bayes and many more.
- Designing the neural networks using **TensorFlow, Keras** for an internal project within the company

Highlights:

- Executed some internal projects as Software Engineer with using tools like LabelImg for Data Preparation
- Contribution in an internal project, Smart Shelf System like product detection using various object detection models, planogram and text and price detection.
- Recognized by managers, colleagues, and peers for innovation, communication, and teamwork to ensure quality, timely project completion

Academics

- **B.Tech. (Electrical and Electronics Engineering)** from SRM Institute of Science and Technology, Modinagar, SRM University, Delhi-NCR in 2019 with 7.56 CGPA

Independent Self Projects

- **Simplified Machine Learning App**
  The following applications generates a report of a dataset with its details and accuracy of different machine learning models.
  Technology Used - ReactJS, SpringBoot, Flask, Machine Learning, HTML, CSS and DialogFlow
- **Rock, Paper and Scissors game using CNN**
  Interactive and visually real time age-old game using the webcam.
  Technology Used – Python, OpenCV and CNN
- **COVID19-Tracker**
  The following application gives the number of people infected, recovered and deceased by COVID 19 virus globally as well as country wise with charts using API calls.
  Technology Used – ReactJs and Android Studio
- **Image Search Engine**
  The following app is a kind of Web based service devoted to collect and index those web images.
  Technology Used - ReactJs
- **Traffic Density and Signal Adjustment**
  In the portrayed technique of Arduino program mechanism, the timer of the traffic light will depend upon the traffic blocked by the IR sensor pair and eventually the roadblocks appear as the signal is red.
  Technology Used – Arduino, Soldering, PCB and Gears

Technical Skills

Programming Languages: Python, Java, C, C++, Kotlin
Web Development: HTML, CSS, JavaScript, ReactJs, Flask, Spring Boot, RESTful API, JUnit Testing, Mockito
Android Development: Android Studio, Firebase
Concepts: Machine Learning, Deep Learning, Object Oriented Design and Language, Data Structures and Algorithms, Problem Solving and Complexity Analysis
Libraries: Numpy, Pandas, Matplotlib, Sklearn, Tensorflow, Keras
Databases: MongoDB, MySQL
Platforms and Misc.: Anaconda, Jupyter Notebook, Spyder IDE, Pycharm, Visual Studio 2017, VS 2016, Anaconda, Windows XP/W7/W8/W10, Google Colab, Eclipse, IntelliJ

Personal Details

Date of Birth: 24th April 1997
Languages Known: English, Hindi and French
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