Alisha Tak

alisha.tk7@gmail.com |+1 (774) 518-5022 | Massachusetts | linkedin.com/in/alisha-tak-3b1164173/

SUMMARY

A detail-oriented and analytical engineer skilled with experience in statistical analysis and business visualization tools. I thrive in environments where leadership, teamwork, and communication are valued. Hands on experience with Python, SQL, and Data Science tools. Currently pursuing MS in data science and seeking full-time positions.

SKILLS

- Data Analytics and Visualization Tools: Advanced Excel, Tableau, Power BI, D3JS, SAS
- Programming Skills: Python, MATLAB, SQL, VBA, C/C++
- Statistical Techniques: Probability Distributions, Cross Validation, Random Forest, Ensemble Methods, Clustering, Decision Tree, Regression Analysis, SVM, Machine Learning Framework Implementation.

EDUCATION

University of Massachusetts Dartmouth, MA   **(Expected) May 2025**
Master of Science, Data Science, GPA: 3.95/4.0
M.B.M Engineering College, Jodhpur, India   **September 2020**
Bachelor of Engineering, Mechanical Engineering (Gold Medalist), GPA: 8.07/10.0

EXPERIENCE

- **University of Massachusetts Dartmouth, MA**   **September 2024 - Present**
Teaching Assistant for Database Systems – Providing mentorship to students in understanding Data Models, SQL; assisting with grading assignments, quizzes, tests.
- **MassDOT, Boston, MA**   **May 2024 – August 2024**
GIS Data Analyst Intern – Responsible for Geocoding crash data, Speed Regulation Mapping on Event Editor, Evaluated Crosswalk data, worked on ArcGIS Software tools, Analyzed Crash Data for Safety Audits.
- **National Engineering Industries, Jaipur, India**   **October 2020 – May 2023**
Quality Assurance Manager - Administered 95+ Process-oriented Audits; aimed for improving manufacturing processes. The data collected from Process Audit was analyzed for identifying improvement actions.
Six Sigma Green Belt Certification (Apr'23) - Reduced the scrap in railway bearing cup by 70 percent. This was achieved through data collection, analysis, and implementing actions for improvement.
- **Northwestern Railway, Carriage Workshop, Jodhpur, India**   **May 2019 – June 2019**
Summer Intern - Received training in various workshops – welding, fitting, wheel, roller bearing and other shops.
- **Malviya National Institute of Technology, Jaipur, India**   **May 2018 – June 2018**
Summer Intern - Designed and Modeled Agricultural tillage cultivator using SolidWorks software tool, under the guidance of Dr. Himanshu Chaudhary, MNIT Jaipur.

PROJECTS

- **Lemme Learn More**   **October 2024**
A platform designed to transform material into engaging formats like Podcasts, BrainROT videos and Flashcards.
[Project link] – winner of the sponsor's award at YHack'24, Yale University.
- **Human Activity Recognition Using Long Short-Term Memory (LSTM) Model**   **April 2024**
A LSTM model was employed to learn complex features from raw accelerometer signal (sourced from WISDM Lab) data to differentiate between common human activities. The model achieved a high accuracy of above 96% for both training & validation data – as a part of Advanced Mathematical Statistics course
- **Fake Logo Detection**   **April 2024**
Detecting fake logo using machine learning's, Isolation Forest Model. A Flask based web application was developed to receive instant authenticity checks –as a part of Advanced Machine learning course.
- **Optimization of High-order Matrix Multiplication using High Performance Computing**   **December 2023**
Accomplished benchmarking of serial code and OpenMP parallelized code on different machines in C. Used Python libraries for output visualization – as a part of High-Performance Scientific Computing course.

CERTIFICATIONS

- Intermediate Python & SQL by Data Camp   **March 2023**
- MS Excel Champion Intermediate Level by HR Sutra & CorpKonnect   **December 2021**
- AutoCAD & Creo by JCT CAD CAM EXPERTS   **March 2018**

ACHEIVEMENTS

- Actively participated in 100+ placement initiatives as a member of Training & Placement Cell during undergraduate degree.
- Coordinated R/C Aero-Modelling Workshop, Hover craft competition, Innovarious 2.0 college Techfest.
- Actively Participated in activities such as dancing, anchoring, and debating.