Alisha Tak

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SUMMARY

A detail-oriented and analytical engineer skilled with experience in Python, SQL, Statistical Analysis, Machine Learning Pipelines and Data Visualization tools. Thrives in environments where leadership, teamwork, and communications are valued. Currently pursuing MS in Data Science and seeking full-time opportunities.

EDUCATION

- **University of Massachusetts Dartmouth, MA** **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, GPA: 8.07/10.0

EXPERIENCE

- **University of Massachusetts Dartmouth, MA** **Sep 2024 – Dec 2024**
  Teaching Assistant for Database Systems
  - Mentored 70+ students in understanding Data Models, SQL, and Database concepts.
  - Graded assignments, proctored exams, and conducted office hours for students.
- **MassDOT, Boston, MA** **May 2024 – Aug 2024**
  GIS Data Analyst Intern
  - Worked on ESRI's ArcGIS Software tools to analyze crash data for safety improvement.
  - Geocoded 500+ crash reports, mapped 200+ speed regulations, and quality checked crosswalk data using ArcGIS.
- **National Engineering Industries, Jaipur, India** **Oct 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 process improvement actions.
  - Led a Six Sigma Green Belt project, reducing scrap in railway bearing cup by 70 percent, using the DMAIC (Define, Measure, Analyze, Improve & Control) framework.
- **Northwestern Railway, Carriage Workshop, Jodhpur, India** **May 2019 – Jun 2019**
  Summer Intern
  - Acquired knowledge of machine shop operations, such as welding, fitting, wheel assembly, roller bearings, & others.
- **Malviya National Institute of Technology, Jaipur, India** **May 2018 – Jun 2018**
  Summer Intern
  - Designed and Modeled Agricultural tillage cultivator using SolidWorks software tool at MNIT Jaipur.

SKILLS

- Programming language: Python, SQL, C/C++, VBA (for Excel).
- Data Analytics and Visualization Tools: Advanced Excel, Power BI, Tableau, D3JS, SAS.
- Statistical Techniques: Time Series Modeling, Adversarial Risk analysis, Cross Validation, Random Forest, Clustering, Decision Tree, Regression Analysis, SVM, Ensemble Methods, Machine Learning Framework Implementation.

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

- Active member of the Outdoor club and actively participates in activities.
- Contributed to 100+ placement drives as a member of Training & Placement Cell during undergrad degree.
- Coordinated technical events, including Aero-Modelling, Hovercraft workshops, Innovarious Techfest during undergrad.