

# Rithvik Srinivasaiya

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## EDUCATION

- Texas A&M University** Texas, United States  
*Masters of Science in Data Science; GPA: 3.75/4.00* *Aug 2023 - Dec 2024*  
*Courses: Data Mining and Analysis, Statistical Foundation of Data Science, Computing Tools for Data Science, Machine Learning, Information Storage and Retrieval, Applied Analytics*
- Indian Institute of Technology(IIT), Kharagpur** West Bengal, India  
*B.Tech & M.Tech in Industrial and Systems Engineering; GPA: 8.00/10.00* *Jul 2017 - May 2022*  
*Courses: Linear Algebra for AI and ML, Data Analytics, Probability and Statistics, Programming and Data Structures*

## SKILLS SUMMARY

- Languages:** Python, C++, C, SQL, R
- Tools:** Docker, GIT, mySQL, Matlab, Postgres, NoSQL, Tableau, MongoDB, Jira, IBM CPLEX, Simulink, Mathematica, OpenCV
- Libraries and Framework:** PyTorch, SQLAlchemy, Scikit-learn, NLTK, Keras, TensorFlow, Flask, Matplotlib, Seaborn
- Soft Skills:** Leadership, Determination, Time Management, Decision Making

## PROFESSIONAL EXPERIENCE

- Atomberg Technologies Private Limited** Pune, India  
*Specialist - Quality Assurance* *Jun 2022 - Jul 2023*
  - Revamped the data monitoring systems of KPIs of the plant using SCADA and Tableau, improving industrial operations by 3.5%.
  - Derived statistically significant insights from defect data by developing a SARIMA model and assisted management decisions.
  - Developed GLMs and ensemble regression models for defect data analysis and minimized defect rates by 4.32% in 6 months.
  - Spearheaded a team of 22 members in achieving operational excellence in manufacturing quality of 2 products of Atomberg.
- Center of Excellence in Safety Engineering and Analytics** Kharagpur, India  
*Research Assistant - Advisor: Dr. Jhareswar Maiti* *Jul 2021 - Nov 2021*
  - Architected a CNN framework using dilations in kernels to estimate the gaze direction of the human eye using facial images.
  - Applied hyperparameter tuning, k-fold CV, data augmentation and dropout regularisation, improving test accuracy by 5.7%.
  - Constructed an MLP linking stress with physiological metrics, advancing health monitoring for comprehensive assessment.
  - Built a 3-layer NN correlating stress levels with gaze factors, achieving a nuanced insight into stress dynamics across varied tasks.

## ACADEMIC PROJECTS

- Comparative analysis of KNN and CNN on FashionMNSIT** Texas A&M, United States  
*Term Project* *Aug 2023 - Dec 2023*
  - Implemented CNN and K-NN to classify FashionMNSIT dataset and assessed models through precision, recall, and F1 scores.
  - Created a blog post detailing the classification process, featuring insights into deep learning and machine learning applications with a focus on their practical implications in the clothing industry, innovation, scalability, and trends.
- Predicting Traffic Flows using Regression Analysis** IIT Kharagpur, India  
*Master's Thesis Project - Advisor: Dr. Balagopal G Menon* *Jul 2021 - May 2022*
  - Designed an innovative traffic forecasting model to improve the existing Intelligent Transportation System (ITS), combining multiple ensemble regression techniques using weights and achieved 84.3% accuracy in predicting road congestion levels.
  - Created a user-friendly website in HTML, offering travel recommendations based on user inputs and real-time congestion data.
- Text Analysis of Safety Data** IIT Kharagpur, India  
*Term Project* *Feb 2021 - Apr 2021*
  - Designed an SVM classification model for evaluating accident severity within IIT Kharagpur's safety department.
  - Utilized NLTK for text preprocessing and TF-IDF weighting on texts, resulting in a classification model with 94.3% accuracy.
- Smart Shopping using Deep Learning** IIT Kharagpur, India  
*Term Project* *Jul 2018 - Dec 2018*
  - Developed an image classifier using modified AlexNet, aiming to improvise the self-checkout process in retail stores.
  - Developed a MATLAB GUI for dynamic bill amount calculations, achieving an 86.4% accuracy in categorizing product images.

## CO-CURRICULAR & HONOURS

- Professional:** Recognized for fast adaptation of line quality activities and OEE scores improvement of the plant. (2022 - 2023)
- Technology:** Governor of Kharagpur Data Analytics Group, a student driven research society aimed to bring Data Analytics and Machine Learning enthusiasts together under the umbrella of single society. (2019 - 2022)
- Student Mentor:** Responsible for mentoring 6 freshmen under the purview of Dean of Students' Affairs, IIT KGP. (2021 - 2022)
- Certifications:** Google Data Analytics & Neural Networks and Deep Learning, Coursera. (2023)