

Trivendra Rahi

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Profile

I am a skilled Data Scientist with extensive experience in the industrial sector, currently working at GE Aerospace. I have a strong technical foundation in **data science and analytics**, encompassing the entire lifecycle from data gathering and cleaning to delivering impactful business solutions through advanced **machine learning models**. My expertise includes working with time-series data, image analytics, and physics-based modeling, leveraging my proficiency in **Python, statistics, and mathematics**. I have hands-on experience with various machine learning frameworks and libraries such as **Keras, Scikitlearn, and TensorFlow**. Passionate about solving complex problems, I excel at developing innovative solutions that drive measurable business outcomes. With a proven track record in designing and deploying models for real-world industrial challenges, I continuously strive to advance my technical skills and contribute to meaningful advancements in the field.

Experience

SENIOR DATA SCIENTIST | FLEET ANALYTICS | GE AEROSPACE | JULY 2024 – PRESENT

- Led end-to-end development of machine learning models to predict hardware conditions, from problem definition to industrial deployment.
- Collaborated with stakeholders to align analytics with business goals, define success criteria, and identify data requirements.
- Conducted data preprocessing, validation, and exploratory analysis to identify key predictors and ensure data quality.
- Designed, trained, and deployed robust machine learning models, achieving a 15% increase in success criteria for a key analytics project under my leadership.

EDISON ENGINEER | IMAGE ANALYTICS | GE AEROSPACE | JANUARY 2024 – JULY 2024

- Developed and optimized CNN architectures (VGG16, InceptionNet, ResNet, UNet) using TensorFlow for image classification and segmentation.
- Delivered a new model training and inference pipeline using Keras, improving model development time by 30%.
- Utilized OpenCV for advanced image processing tasks.
- Contributed to robust image analytics models for aerospace applications.

EDISON ENGINEER | FLEET ANALYTICS | GE AEROSPACE | AUGUST 2022 – DECEMBER 2023

- Developed a full analytics pipeline for the Long Haul Analytics team, addressing a new use case from problem definition to model deployment.
- Designed and implemented machine learning models that reduced maintenance costs by 15%.
- Collaborated with cross-functional teams to ensure successful deployment and adoption of the solution.
- Improved physics-based modeling, leading to a significant reduction in maintenance burden for airline customers.
- Developed standard method of outlier detection and removal and presented in the interval board to set it as standard process for all other analytics.

Education

MTECH IN MECHANICAL ENGINEERING | 2020-2022 | IIT GUWAHATI, GUWAHATI ASSAM

BTECH IN MECHANICAL ENGINEERING | 2016-2020 | SHRI G.S. INSTITUTE OF SCIENCE AND TECHNOLOGY, INDORE, M.P.

Skills & Abilities

- Machine Learning
- Statistical Data Analysis
- Artificial Neural Networks
- Data Wrangling
- Time Series Analysis
- Predictive Analytics
- Computer Vision
- Mechanical Engineering
- Data Visualization

Tools and libraries

- Programing Languages: Python (fluency Advance), SQL, R
- Machine learning and Data manipulation: Tensorflow, Keras, Scikit-learn, Pandas, Numpy, Excel, Dataiku, Github, Matlab
- Visualization: Matplotlib, Seaborn, JMP, plotly, spotfire

Certification and Courses

- Foundation: Data, Data, Everywhere | Google | [link](#)
- Ask Questions to Make Data-Driven Decisions | Google | [link](#)
- Neural Network and Deep Learning | DeepLearning.AI | [link](#)
- Convolutional Neural Network | DeepLearning.AI | [link](#)
- Python for Data Science and Machine Learning Bootcamp | Udemy | [link](#)
- 100 Days of Code – The Complete Python Pro Bootcamp | Udemy | [link](#)

Activities and Interests

Chess, Video game, table tennis, travelling , documentary