Trivendra Rahi

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EDUCATION

- **IIT Guwahati** — Guwahati, Assam
  MTECH in Mechanical Engineering — 2020-2022

- **Shri G.S. Institute of Science and Technology** — Indore, M.P.
  BTECH in Mechanical Engineering — 2016-2020

SKILLS SUMMARY

- **Machine Learning**: TensorFlow, Keras, Scikit-learn, Neural Networks, Predictive Analytics
- **Data Analysis**: Statistical Data Analysis, Time Series Analysis, Data Wrangling, Data Visualization
- **Programming**: Python, SQL, R, Matlab
- **Tools**: Pandas, Numpy, Excel, Dataiku, Github, JMP, Plotly, Spotfire, OpenCV

EXPERIENCE

- **GE Aerospace** — Bengaluru, India
  Senior Data Scientist — Fleet Analytics — July 2024 - Present
  - **Machine Learning Model Development**: Led end-to-end development of machine learning models to predict hardware conditions, from problem definition to industrial deployment.
  - **Stakeholder Collaboration**: Collaborated with stakeholders to align analytics with business goals, define success criteria, and identify data requirements.
  - **Data Analysis and Preprocessing**: Conducted data preprocessing, validation, and exploratory analysis to identify key predictors and ensure data quality.
  - **Model Deployment**: Designed, trained, and deployed robust machine learning models, achieving a 15% increase in success criteria for a key analytics project under my leadership.

- **GE Aerospace** — Bengaluru, India
  Edison Engineer — Image Analytics — January 2024 - July 2024
  - **CNN Architecture Optimization**: Developed and optimized CNN architectures (VGG16, InceptionNet, ResNet, UNet) using TensorFlow for image classification and segmentation.
  - **Model Training Pipeline**: Delivered a new model training and inference pipeline using Keras, improving model development time by 30%.
  - **Image Processing**: Utilized OpenCV for advanced image processing tasks.
  - **Aerospace Applications**: Contributed to robust image analytics models for aerospace applications.

- **GE Aerospace** — Bengaluru, India
  Edison Engineer — Fleet Analytics — August 2022 - December 2023
  - **Analytics Pipeline Development**: Developed a full analytics pipeline for the Long Haul Analytics team, addressing a new use case from problem definition to model deployment.
  - **Maintenance Cost Reduction**: Designed and implemented machine learning models that reduced maintenance costs by 15%.
  - **Cross-functional Collaboration**: Collaborated with cross-functional teams to ensure successful deployment and adoption of the solution.
  - **Physics-Based Modeling**: Improved physics-based modeling, leading to a significant reduction in maintenance burden for airline customers.
  - **Outlier Detection**: Developed standard method of outlier detection and removal and presented in the interval board to set it as standard process for all other analytics.

CERTIFICATIONS

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

ACTIVITIES AND INTERESTS

- : Chess, Video Games, Table Tennis, Traveling, Documentaries