RAJENDRA BEHERA

Data Scientist

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PROFESSIONAL SUMMARY

Data Scientist with 4 years of experience in AI/ML, specializing in cybersecurity and model deployment. Proficient in Python, PyTorch, and TensorFlow, with a proven track record of enhancing compliance solutions and improving data visualization for business insights. Passionate about leveraging advanced machine learning techniques to drive innovation and achieve impactful results in dynamic environments.

RELEVANT COURSEWORK

- Machine Learning & Deep Learning
- Natural Language Processing
- AI for Cybersecurity
- AI Ethics and Governance

- Computer Vision
- Reinforcement Learning
- Big Data Analytics
- Data Structures & Algorithms

EXPERIENCE

Machine Learning Eng., Developer
DefenseEye

Dec 2024 – present
Washington D.C

- Developed a CMMC compliance scanner with 90%+ accuracy, benefiting 100+ users with enhanced compliance insights.
- Integrated Google Vertex AI, reducing evaluation time by 40% and enabling scalable compliance automation.
- Automated compliance gap analysis using Falcon 7B and LangChain, reducing manual assessment time by 50%.
- Built an end-to-end MLOps pipeline, reducing model deployment cycles by 60% with CI/CD automation.
- Ensured 99.9% uptime for Docker- and Kubernetes-based deployments, enabling scalable AI solutions.
- Enhanced NLP models for cybersecurity, increasing threat detection accuracy by 40% with LLaMA models.
- Spearheaded the redesign of gap analysis logic, reaching a 95% accuracy rate in identifying inconsistencies and saving the data analysis team approximately 15 hours per week, per analyst.

Tata Data Visualization
TATA (Insights Job Simulation on Forage)

Aug 2024 – Sep 2024
Remote

- Completed a simulation involving creating data visualizations for Tata Consultancy Services
- Prepared questions for a meeting with client senior leadership
- Created visuals for data analysis to help executives with effective decision making

Machine Learning Engineer
Genser Aerospace

Oct 2021 – Aug 2023
India, Bangalore

- Managed and analyzed aerospace sensor data with Python and SQL, boosting simulation accuracy by 10%.
- Led development of computer vision systems for defect detection, improving accuracy by 30%.
- Utilized Tableau and Excel to present data insights, enhancing project outcomes by 67%.
- Implemented optimization frameworks for sensor analytics; applied ensemble techniques to curb errors and upgrade system stability.
- Engineered adaptive training frameworks using neural networks, troubleshooting anomalies to improve predictive task precision significantly.

SKILLS

Languages & Libraries: Python, SQL, R, PyTorch, TensorFlow, pandas, NumPy, Matplotlib, machine learning, SciKit learn, Azure.
Frameworks: Flask, Fast API, Streamlit, React.js, Node.js, Pyspark, Keras, Data analysis , Data visualization, Time OS.
Platforms & Tools: GitHub, MySQL, Firebase, Kubernetes, Docker, Tableau, PowerBI
Technologies: Computer Vision, Cloud Computing, Data Engineering, MLOps, Gen AI, LLM, Snowflake, predictive Modelling
Regulatory Tools: Oracle Axiom.

EDUCATION

MSc in Artificial Intelligence
Yeshiva University

Sep 2023 – May 2025
USA, New York City

Projects: Brain **Health Classification and Image Orientation Detection**
▪ Developed a dual-task CNN architecture for simultaneous orientation detection and health classification of a human brain by analyzing cranial MRI images.
▪ Achieved 82.8% accuracy in health classification (healthy vs. tumorous) and 52.8% accuracy in orientation detection.
Dog Cardiomegaly Detection
▪ Enhanced a computer vision model using CNNs for detecting cardiomegaly in dogs based on vertebral heart scale (VHS) scores, achieving 73.3% accuracy on thoracic radiograph classification.
▪ Implementation resulted in competitive performance to VGG16 while maintaining computational efficiency.
Image Segmentation – Bird Sound Spectrograms
▪ Improved an advanced image segmentation model using U-Net architecture with a ResNet34 encoder for analyzing bird sound spectrograms.
▪ Achieved an IoU score of over 68% by implementing channel attention mechanisms.

MSC Product Design and Development
Birla institute of technology

Sep 2019 - Sep 2021
India, Pilani

● Modules: Systems Engineering, Mechanical System Design, Human-Computer Interaction (HCI), Product Lifecycle Management
● Dissertation: Leveraging Artificial Intelligence for Optimizing Morphing Wing Aerodynamics and Performance in Autonomous Flight Systems

CERTIFICATION

Google Cloud Certified – Professional Data Engineer
Google

Jun 2023 - Aug 2023

Developer Certificate
TensorFlow

Jun 2024 - Jul 2024

Data camp
SQL certification

Jan 2025 – Mar 2025