Harshit Rajgarhia

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Summary

Outlier AI enthusiast with 5 years of experience in Machine Learning, Deep Learning, and Data Science. I am a Data Science Master's student at RIT looking for full-time opportunities starting May 2024.

Education

Rochester Institute of Technology   **Rochester, New York**
Master of Science (MS) in Data Science (GPA: 4.0/4.0)   *08/22 – 05/24*

Birla Institute of Technology, Mesra   **Ranchi, India**
Bachelor of Engineering in Chemical Technology   *08/13 – 05/17*

Technical Skills

Language: Python, Java, R.

Frameworks: Scikit-learn, TensorFlow, PyTorch, Keras, OpenCV, Pandas, Hadoop. PySpark.

Databases: MySQL, Hive, MongoDB.

Cloud Platforms: Microsoft Azure (Azure ML, AKS), AWS(Sagemaker), GCP.

Work Experience

Pactera EDGE   **Hyderabad, India**
Senior Artificial Intelligence Engineer   *03/20 – 08/22*

Aim: To build a multi-level Deep learning model to auto-annotate data for in-house data annotation product
- Built an active learning-guided solution to substantially automate various deep learning-based data annotation tasks involving Object Detection and Scene Text Detection.
- Led a team of data scientists/AI Engineers to integrate the developed solution using Azure ML pipelines.
- The built solution proved to be efficacious in reducing the manual turnaround time of annotation by 75 percent.

Aim: To develop an ML-based Trade Promotion Platform for a CPG giant in the food and beverages sector
- Built a Time Series Forecasting algorithm using a Regularized Autoregressive Distributed Lag [ARDL] linked with an Optimization algorithm, a hybrid of Genetic Algorithm, and Particle Swarm Optimization.
- The built solution surpassed Legacy forecasting accuracy by a mean percentage error of 10 percent and yielded an increase in ROI of 7 percent on recommended promotional events.
- Collaborated cross-functionally with various teams like product managers, engineering teams, and delivery teams to rapidly develop the application at scale.

Nova IQ, Data Inc.   **Hyderabad, India**
Artificial Intelligence Engineer   *03/19 – 02/20*

Aim: To build an NLP-based Chatbot Interface for the Defence wing of the Government of India
- Developed a Question Answering framework using a state-of-the-art Natural Language processing-based Deep Learning Model, which leverages Bidirectional Transformers clubbed with an Attention mechanism.
- The developed solution was successfully deployed, which on average contracted the turnaround time for information retrieval per User by 200 percent, followed by minimizing human intervention by 60 percent.

Aim: To develop an AI-based Route and Load Optimization Solution for a logistics Company in PAN India
- Built a Reinforcement Learning based solution leveraging the Deep Distributed policy gradient (DDPG) model.
- The developed application moved into Production, reducing daily operational cost per kilogram by 6 percent.

Aim: To build several proof-of-concept solutions for AI/ML capability demonstrations
- Built a Multi-label Image Classifier Model for detecting rare Thoracic diseases from Chest X-Ray images.
- Developed an integrated framework covering NLP tasks such as Text Summarization, Question and Answering, Aspect Based Sentiment Analysis, and Speech-to-text using state-of-the-art deep learning models.
- Built a camera-based solution using the YOLO model to detect and count objects in a Warehouse.

Quantiphi Analytics   **Mumbai, India**
Machine Learning Engineer   *07/17 – 02/19*

Aim: To develop a Recommender engine for a Bottling client in North America
- Built a recommender engine system using deep matrix factorization-based collaborative filtering for implicit feedback coupled with a conjugate-based gradient descent optimization technique for scaling.
- The developed engine was deployed in North America, which increased profit margins by 15%.

Certifications, Coursework and Additional
- Data Scientist Certification from DataQuest
- Data Analyst Certification from IMS Pro School in collaboration with National Stock Exchange, India
- Deep Learning Specialization and NLP Specialization, Andrew Ng, Coursera