Rithwik Shetty

AI Engineer

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Socials: LinkedIn, Github

Qualifications

MSc Computer Science (Artificial Intelligence)
University of Nottingham - 2023

B.E. Mechanical Engineering
BMS College of Engineering, India - 2021

Skills

- Programming: Python, R, SQL, MATLAB

- Natural Language Processing: Text Classification, Named Entity Recognition, Sentiment Analysis

- Big Data: Apache Spark, Hadoop

- Cloud Platforms: Microsoft Azure

- Deep Learning: TensorFlow, PyTorch

- Database Management: MySQL, PostgreSQL, MongoDB

Technical Projects

Predicting a Failure in Scania's Air Pressure System (APS) - 2020

- Solving a Binary Classification problem of predicting whether the truck's failure was due to a particular component of its Air Pressure System (APS)

- Performed Exploratory Data Analysis, Data Pre-processing, Modelling and Deployment of selected model (Gradient Boosted Decision Trees) on local server using Flask API.

Experience and Skills

Gleeds LLP

Digital Intern | Junior Data Scientist | Digital Data Scientist | **AI & ML Engineer**
June 2022 - Present

AI Systems Development & Integration

- Responsible for developing and deploying enterprise-wide AI solutions, serving hundreds of users across a global consulting firm.

- Developed agentic AI applications that utilises RAG for generating long-form, multimodal content including bid proposals and project execution plans.

- Developed a data extraction system utilising OCRs and NLP techniques, reducing processing time from 16 hours to 30 minutes on public sector projects.

- Implemented multiple internal chatbots powered by Anthropic and OpenAI models to enable construction professionals to access market trends and sector standards.

Data Analytics & Automation

- Designed and implemented web scraping algorithms using Selenium and BeautifulSoup for real-time material price tracking.

- Developed sentiment analysis tool to evaluate industry trends and generate sector outlook scores used in global market reports.

- Trained and fine-tuned a hierarchical network of models to categorise cost items across 48 industry-standard categories used for project benchmarking.

- Built systems to extract and process data from semi-structured and unstructured sources including Cost Plans and Bills of Quantities

Leadership and Recognition

- Invited speaker at the Royal Statistical Society (RSS) conference 2023, presenting on AI applications in the construction industry

- Led and participating in discussions on AI adoption in construction and project controls alongside project managers and directors across the UK

Toyota Industries Engine India Pvt. Ltd.

Supplier Quality Assurance Intern
January 2020 – April 2020

- Evaluated the operations of engine part suppliers to ensure their compliance with the company's quality standards, which was crucial in facilitating the transition from BS4 to BS6 Global Diesel Engines for Toyota, India.

Autoliv India Pvt. Ltd.

CAD Engineering Intern
September 2018 – March 2019

- Standardised and Maintained Geometric Design & Tolerances (GD&T) of Part and Assembly Drawings using CATIA v5 and other Enovia PLM services