Sagnik Jena

Machine Learning Engineer

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Machine Learning Engineer with almost 5 years of experience in the field of data and analytics across sectors like manufacturing and tax. Substantial experience developing end-to-end scalable machine learning systems in an industry environment. Ability to handle multiple tasks, meet deadlines in a dynamic/changing environment with strong interpersonal and influential skill. Drive innovation and provide mentorship.

Skills

- Programming | Python, R
- Machine Learning | familiar with most statistical models
- Deep Learning | Frameworks: Keras, Tensorflow
- Business Analysis
- Data modelling and validation

Work History

2017-10 - Current

Machine Learning Engineer

PricewaterhouseCoopers Pvt. Ltd., Kolkata, West Bengal

- Understanding business objectives and developing models that help to achieve them, along with metrics to track their progress
- Verifying data quality, and/or ensuring it via data cleaning
- Defining validation strategies
- Deploying machine learning solutions into production.
- Optimizing solutions for performance and scalability.
- Played a pivotal role in creating the AI Center of Excellence in the Data and Analytics practice of the organization
- Developed the deep learning capability in the PwC's Withholding Tax Manager application which was also nominated as one of the top 5 innovation solution of fiscal year 2018-19 at the global level.

2013-05 - 2015-04

Program Analyst

Cognizant Technology Solutions Pvt. Ltd., Bengaluru, Karnataka

- Validated results and performed quality assurance to assess accuracy of data
- Analyzed program data to provide input for key decision making and strategic planning
- Developed shell scripts to automate quality and sanity check on the data
- Validated extract, transform and load (ETL) workflows for client applications

Education

2017-01 - 2017-10

Post Graduation Program: Datascience
Praxis Business School - Bengaluru, Karnataka

2016-03 - 2017-11

Certification: Big Data
AnalytixLabs - Gurugram, Haryana

2008-07 - 2012-05

Bachelor of Technology: Electrical And Electronics Engineering
Amrita Vishwa Vidyapeetham - Bengaluru, Karnataka

Projects

- **Abstractive Text Summarization** - Designed a text summarizer that generates a text summary from the main ideas of a document, without copying the lines from the original document.
- **Semantic Search** - Developed a semantic search API for a client which uses Natural Language Understanding (NLU) and a custom ranking algorithm to return results based not only on keywords, but the contextual meaning and intent of the user query.
- **PwC's Withholding Tax Manager** - PwC India's application used by clients for reconciliation of their organization's withholding tax data.
- **Process Optimization Using Genetic-based Machine Learning** - Optimized a client's manufacturing process by combining machine learning with the concepts of genetic algorithm.
- **Object Detection Web App** - A simple web application which uses Residual Neural Network (ResNet) to detect objects in an image.