

## Contact

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## Top Skills

Recommender Systems

Team Management

Artificial Intelligence (AI)

## Certifications

Machine Learning in production

Being an Effective Team Member

How to Work Smarter, Not Harder: Save Time and Money and Increase Productivity

Using Questions to Foster Critical Thinking and Curiosity

Deploying Machine Learning Models in Production

## Honors-Awards

STELLAR Award

Dream Team Award

Rising Star Award

# Indresh Bhattacharya

Innovative Data Scientist @ KPMG | AI Solutions, Predictive Maintenance | Authon PyMLpipe  
Kolkata, West Bengal, India

## Summary

As an Assistant Manager and Machine Learning Consultant at KPMG, I leverage my expertise in AI and predictive maintenance to deliver innovative solutions to clients in the metal and mining sector and investment banking. With over 5 years of experience as a data scientist, I have a proven track record of using data-driven insights to drive business growth and improve operational efficiency.

I am also the author of PyMLpipe, an open source MLOps toolkit, which demonstrates my passion for staying up-to-date with the latest advancements in my field and my commitment to sharing my knowledge with the community. Additionally, I have a strong background in OCR and financial document processing, which I applied in my previous roles at PRM Fincon and Virtusa, where I developed systems for extracting, tagging, and classifying financial documents, resulting in time and cost savings for the clients. I hold a Master's degree in MCA from Vellore Institute of Technology, and I have multiple certifications in deep learning, data science with python, and pyspark. I am motivated by the challenges and opportunities that come with working with cross-functional teams and using cutting-edge technologies to solve real-world problems.

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## Experience

### KPMG

2 years 5 months

#### Assistant Manager

April 2023 - Present (1 year)

India

#### Machine Learning Consultant

November 2021 - April 2023 (1 year 6 months)

India

Data scientist with a strong background in AI and predictive maintenance. Proven track record of delivering innovative solutions to clients in the metal and mining sector and Investment Banking. Skilled in working with cross-functional teams and using data-driven insights to drive business growth

- Worked with clients in the metal and mining sector to implement AI for predictive maintenance.
- Utilized data analytics and machine learning algorithms to develop predictive models for equipment failure.
- Conducted root cause analysis of equipment failures and recommended maintenance strategies.
- Delivered business results by saving 25 crores in revenue for the clients.
- Led the development of a finding writing tool for auditors.
- Utilized NLP and computer vision to build a grammatical error correction and text scoring system.
- Developed a text rephrasing system to ensure the findings description was clear and concise.
- Segregated the findings description into categories such as issue impact, background, and observation.
- Worked closely with auditors to ensure the tool met their requirements and provided meaningful insights.

## PRM Fincon

### Data Scientist

April 2020 - November 2021 (1 year 8 months)

Kolkata, West Bengal

At PRM Fincom, I was a key member of the team responsible for delivering several financial technology projects aimed at improving financial processes and data management. My work included:

1. FINANCIAL DOCUMENT EXTRACTION: Developed an automated system for extracting financial documents, using Optical Character Recognition (OCR) technology and machine learning algorithms.

2. AUTOMATIC DOCUMENT TAGGING: Implemented a system for automatically tagging financial documents, making it easier to categorize, organize, and search for relevant information.

3. FINANCIAL DOCUMENT CLASSIFICATION: Built an AI-powered system for classifying financial documents, improving the accuracy and speed of document management.

4.DISTRIBUTED ARCHITECTURE FRAMEWORK: Worked on the development of a distributed architecture framework, allowing for efficient and scalable processing of financial data.

5. NAMED ENTITY RECOGNITION USING OCR: Designed a solution for named entity recognition using OCR technology, improving the accuracy of financial form processing.

I collaborated with cross-functional teams, including data scientists, software engineers, and business analysts, to deliver these projects. Through my work, I was able to help the company achieve a 30% increase in the processing of financial documents, improving efficiency and reducing costs for clients.

## Virtusa

1 year 11 months

### Machine Learning Engineer

June 2019 - April 2020 (11 months)

Hyderabad, Telangana, India

- Developed end to end AI platform for AutoML. The platform helped accelerate machine learning model development for engineers by 20%.
- Created and deployed various Natural Language Understanding Models for the Google Ads which reduced the error rate for the agents from 9% to 2 % in the Quarterly reports.
- Coordinated a team of 4 Engineers.
- Consulted with client for accessing data from locations across globe to access Agent-Altas interaction data.
- Received award like Steller Award, and Dream Team as part of Virtusa ecosystem.

### Associate Machine Learning Engineer

June 2018 - June 2019 (1 year 1 month)

Chennai Area, India

#### Role and Responsibilities:

- Creating Optimising and debugging machine learning models
- Developing end- to end solutions

- Use machine learning techniques and statistical methods to conceptualise solutions

Projects:

1. DATA LINEAGE UTILITY
2. SYNTHETIC IMAGE GENERATION
3. AI-CELERATE (END TO END DATA SCIENCE PLATFORM)

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## Education

Vellore Institute of Technology

Master's degree, MCA · (2016 - 2018)

WEST BENGAL STATE UNIVERSITY

Bachelor's degree, B.sc Computer Science · (2013 - 2016)