

Atanu Maity

Senior Consultant - Data Science

Atanu is a Senior Data Science professional with **6+ years of experience** in Statistical and Mathematical Modeling and coding. He is also interested in application of Data Mining Techniques in Retail, Insurance and Financial Sectors. He has worked on assignments in varied areas like model building for stock market and insurance, weather forecasting, customer churn forecasting, RFM Analysis, Customer Life Time Value Prediction, Social Media Analytics and Sentiment Analysis of Customers. He is Highly skilled in Python Programming, Data Engineering and NLP techniques. He has exceptional interpersonal and multitasking abilities. He is highly selfmotivated towards learning advanced **Deep Learning** techniques and applying those to solve real world problems.



Personal Info

Date of birth

1989-04-29

Marital status

Married

Citizenship

Indian

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LinkedIn

<https://www.linkedin.com/in/ytiam/>

Website

<https://www.inanalyticsai.com/>

Skills

Python programming ★★★★★

Aws services ★★★★★

Data engineering ★★★★★

Education

2002-05
- 2004-04

Secondary Education

Contai Model Institution, Contai

2004-06
- 2006-04

Higher Secondary Education

Contai Model Institution, Contai

2006-06
- 2009-03

Mathematics, Bachelor of Science

Ramakrishna Mission Residential College, Narendrapur (C.U.), Kolkata

2010-05
- 2012-04

Mathematics, Master of Science

Guru Ghasidas Central University, Bilaspur, Chattisgarh

2014-06
- 2015-04

Business Analytics, PGPBA

Praxis Business School, Kolkata

Work History

- present

Senior Consultant - Data Science

Capgemini, Kolkata

- Built and deployed an end-to-end Knowledge graph based Solution for a Question-Answering system in a Azure VM
 - Graph Database Used - Neo4j
 - Graph Query Language Used - Cypher
 - Techniques Used - Neural Coreference, NER (NLP), SVO Triplets
 - Tools Used - OpenAI, OpenNRE (Relationship Extraction), Wikifier, Spacy
- Document Processing using advanced NLP and Computer Vision Techniques to extract significant factors behind a failure and then perform the Root Cause Analysis to get the most contributing factors towards the failure, for a leading O&G client
- Automating different manual timetaking data processing pipelines for different dashboard report creation, using selenium and other related apis, for a leading O&G client
- Perform and Propose different Anomaly detection techniques to a Cyber Security team based on Machine Learning methodologies like Isolation Forest, K-NN etc
- Conduct interviews for the Organization to build a strong AI/DS team

Docker	★★★★★
Process automation	★★★★★
Airflow	★★★★★
MLFlow	★★★★★
Deep learning	★★★★★
R	★★★★★
Data mining	★★★★★
Problem solving	★★★★★
Metric Design	★★★★★
Selenium	★★★★★

Software

Rapidminer	★★★★★
Microsoft Azure	★★★★★
Ibm spss	★★★★★
Saas	★★★★★

Languages

Bengali	★★★★★
English	★★★★★
Hindi	★★★★★

Hobby

Composing Music
Bike Riding
Reading ML/DL books

2016-04
- 2021-07

Lead Data Scientist

Ayata, Kolkata

- Collecting Oil Well Log Data and other well-related production data to analyze and build a model to maximize the Oil production and prescribing an ideal recipe for a new well
- Collecting Radar Data and Image to analyze and forecast different Weather parameters (Temperature, Wind Speed and Precipitation)
 - Data collected from Real-time and archival data from the Next Generation Weather Radar (NEXRAD) network.
 - Different techniques like HMM, Neural Network LSTM, etc have been tried, and finally, Ensemble to give the final forecast.
- Design and Build a different Model Stacking Methodology and integrate that with the company's existing software product, to get a better prediction.
- Hail Damage Detection: Identifying the Hail damages over a car made by unpredictable weather, to help the insurance company in their investigation processes for Auto claims.
- Model Building and Prediction for different objectives of different verticals of Insurance Domain
 - Medical Bill Fraud Detection
 - Predicting the IME/IMR (Independent Medical Examination / Independent Medical Review) Success Rate
 - Deriving the driving factors for an STP bill
 - Building a process to know from the very inception stage of a claim to know, either that claim will go for Litigation or not. Take actionable steps on the driving factors for a claim going to Litigation
 - Processing of different Adjuster Notes to find out important driving factors toward Litigation for a claim
 - Helping Client to know and maximize the channels through which they allocate their Leads to get more customers and for the same objective build confidence with the Lead Allocation Predictive Model.
 - Design a specific confidence metric and the mathematical implementation of the same to measure prediction performance and model reliability
 - Build an EDA and Preprocessing Module which will do all the basic and preliminary data preprocessing and analysis automatically without any human instruction, irrespective of data and domain

2015-04
- 2016-03

Data Scientist

Karvy Analytics Limited, Hyderabad

- Analysis of blind test of a new blend of a major vodka brand
 - Study about the blind test of two new blends of vodka against the one in the market, among regular consumers of vodka
 - Conducted multivariate regression model, ANOVA
- Fraud detection for an insurance company
 - Built a tree based model to find out the pattern in the behavior of customers which indicates high probability of being fraudulent.
 - Conducted decision tree, random forest to classify the customers.
- Exploratory and Predictive Analytics for one of India's Largest Stock Broking Company
 - Created a dashboard in Tableau for reporting the overview of the business
 - Predicted customer churn rate and probability of being dormant of a customer
 - Used RFM Analysis and Predicted CLV for useful and strategic marketing