

Satyajit Pattnaik

Lead Data Scientist

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11+ years experienced, meticulous & result-oriented Lead Data Scientist armed with a proven track record of analytical acumen in deploying complex machine learning and statistical modeling algorithms/techniques.

Skills

Data Science & AI

Machine Learning: Scikit-learn, Xgboost, PCA, HPO etc

Deep Learning: Tensorflow, Keras, CNN, RNN, LSTMs, NLP

Languages: Python, R & Java

Databases: SQL, MySQL, NoSQL

Tools: Apache Kafka, Spark, Druid

Other Skills: Data Mining, Data Modeling, Data Analysis

Experience

Xccelerate / Lead Data Scientist

JULY 2021 - PRESENT, HONG KONG SAR

- Responsible for the digital transformation of the company
- **Data analytics, AI, ML, DL, data driven solutions/ecosystems/processes**
- Mentored AI case studies including Ground Condition Classification, Structural Classification, Transport Modeling using Deep Learning techniques for various Xccelerate clients

Sun Life Insurance / Data Scientist

DEC 2020 - MAY 2021, HONG KONG SAR

- Worked on a voice based classification model using **CNN 1D, CNN 2D & transfer learning** techniques.
- Worked on few proof of concepts around **OCR based Document Classification, Customer Segmentation, Speech Analytics & Cross Selling** models using Machine Learning & Deep Learning techniques
- Peer review other Data scientists work

- Mentoring a team of 12 across India & Philippines

HGC Global Communications / Data Scientist

SEP 2019 - DEC 2020, HONG KONG SAR

- Built & Implemented the various models around **customer retention, profiling & segmentation using ML techniques**
- **Built 100+ reports** for various internal customers using **Power BI**
- Analyzed HGCmore.com's (HGC's e-Commerce Platform) Google Analytics and Tag Manager to understand the current flaws in the platform and provided suggestions to improvise the platform, & then worked on the customer segmentation & profiling of the website data as well.

BT eServ / Data Science Professional

OCT 2017 - AUG 2019, INDIA

- Provided **consulting** to enhance the system reducing the number of auto tickets and Anomalies in the system using a statistical approach (**3-sigma based Anomaly detection**)
- Analyzed the various Machine Learning & **Time series algorithms** for the forecasting of various metrics improving the system to identify issues in advance and for faster ticket/issue closure, and built the respective Time series forecasting model. (**ARIMA, FbProphet, LSTM, NeuralProphet** etc)
- Analyzed and implemented a model for Event correlation. (**Apriori & Eclat** - Association Rule Learning Models)

Amdocs Inc / Software Engineering Team Lead

SEP 2011 - MAY 2017, INDIA

- Provided **analytics consulting** for reducing the number of tickets by time series forecasting
- Mentored a team of 8 members as a Scrum Master for a few projects.
- Developed & maintained various components of the Amdocs billing product such as Customer management & replenishment management using Java, exposing various APIs that can be consumed by third party vendors for the process of replenishment.
- Over 16 months of Overseas Onsite experience in Client side, dealing directly with customers while being in Amdocs

Education

LJMU / MSc in Data Science

JUNE 2020 - MAY 2022, CORRESPONDENCE

BPUT / BTech in Computer Science

AUG 2007 - JUNE 2011, INDIA

Scientific Publications

Technical Reviewer

- Technical Reviewer of a book named Beginning Anomaly Detection Using Python-Based Deep Learning With Keras and PyTorch by Sridhar Alla (2019)

Conference Proceedings

- Attended as a resource person in the TEQIP-III sponsored 5-day Faculty Development Programme on “Advances in Data Science: A practical approach” at Bangalore, India
- Keynote Speaker at “World Conference on Systems Engineering Research (WCSE-19)” held at Manchester, UK on 12th June, 2019
- Keynote Speaker at “MEET - 21 International Conference on Management, Education & Emerging Technology” organized by Core Research Foundation on 8th-9th Dec, 2021 at Kuala Lumpur, Malaysia
- Attended more than 10+ such similar events as Keynote speakers across the APAC region.

Research Publications

- Published a research paper on “Voice Based Classification of Patients using various Machine Learning & Deep Learning techniques” and created a web application on this model that is currently available for general public to check their health score

Open Source Contributor

- Creator of a Python library named AutoWave, that is a complete audio automatic classification library with other features: plottings, audio augmentation, data loading etc.