

# SWATI PATTNAIK

Senior Data Science Analyst

pattnaikswati1@gmail.com ✉

+91-8018840861 📞

Bhubaneswar, India 📍

linkedin.com/in/swati-pattnaik-98b706157 in

Senior Data Science Analyst professional with more than 2 years of overall experience in Data Science & Machine Learning. Highly optimistic and motivated Data Science professional, looking forward to working with novel Machine Learning techniques and business problems. Created models and processes to collect, distill and interpret data with a view to aid better, more informed decision making. Examined and explored data from multiple disparate sources with the goal of discovering insights which in turn can provide competitive advantage for our stakeholders.

## SKILLS

Machine Learning	<div><div></div><div></div><div></div><div></div><div></div></div>	Programming	<div><div></div><div></div><div></div><div></div><div></div></div>
Statistics	<div><div></div><div></div><div></div><div></div><div></div></div>	Data Management	<div><div></div><div></div><div></div><div></div><div></div></div>
Research and Development	<div><div></div><div></div><div></div><div></div><div></div></div>	Designing	<div><div></div><div></div><div></div><div></div><div></div></div>
Communication	<div><div></div><div></div><div></div><div></div><div></div></div>	Presentation	<div><div></div><div></div><div></div><div></div><div></div></div>
Interpersonal	<div><div></div><div></div><div></div><div></div><div></div></div>	Teamwork	<div><div></div><div></div><div></div><div></div><div></div></div>

## PROFILE SNAPSHOT

Performed tasks such as designing code and tested programming for software, developed computer applications, executed code builds to test and production environments, fixed bugs in existing code. Collaborated with product, design, and marketing teams. Maintained documentation as per company standards. Provided testing, documentation, training, and support for third-party software products. Resolved user-submitted problems and questions..

Possess knowledge of statistical tools to interpret data sets, paying particular attention to trends and patterns that could be valuable for diagnostic and predictive analytics efforts. Work exclusively in databases to uncover data points from complex and often disparate sources.

## WORK EXPERIENCE

### Sr. Data Science Analyst TIGER ANALYTICS

08/2019 - Present

#### Achievements/Tasks

- Developed solutions using machine learning to create a more intuitive and responsive banking system by decreasing human labor. Collaborated with company to address business issues and influence change using strategy, industry, and analytical skills.
- Created insights from predictive statistical modeling, mathematical knowledge, tools, and techniques to solve complex problems and deliver value.
- Examined large data sets to identify trends, develop charts, and create visual presentations to help business make more strategic decisions.

### Analytics Intern APTUS DATALABS

01/2019 - 06/2019

#### Achievements/Tasks

- Developed machine learning solutions prototypes using rapidminer for e-commerce. Analyzed well-defined sets of data using an arsenal of different tools to answer tangible business needs.
- Created appropriate documentation that allows stakeholders to understand the steps of the data analysis process and duplicate or replicate the analysis if necessary.
- Examined large data sets to identify trends, develop charts, and create visual presentations to help business make more strategic decisions.

## PROJECTS

### Credit Risk Monitoring Senior Analyst

08/2019 - Present

#### Tasks/Achievements

- Developed an Early Warning System for credit monitoring of clients of an Italian bank. Analysing client behaviour, processing the data and applying machine learning models (Logistic Regression, XGBoost, Decision Tree etc) to potential defaulters.
- The new system of early warning was 2.5 times more efficient than the legacy system previously used and captured 75% of future defaulters and increased value by 3.5 million Euro per year.

### Customer Lifetime Value Prediction Intern- Data Science

01/2019 - 06/2019

#### Tasks/Achievements

- Different customers generate different levels of sales for a business. Identified these top customers for an e-commerce client to ensure a steady stream of revenue was the objective of the project.
- The bottom customers were also identified for target marketing. Used the tool Rapidminer for data processing, analysing client behaviour and applying machine learning models.

### Predictive maintenance of industrial motor (Prototype) Developer

#### Tasks/Achievements

- Anomaly detection in machines used in industries (like conveyor belts). Temperature, vibration and rpm sensors were used to collect data.
- MQTT protocol was used to receive the data. Kafka and Cassandra were used for collecting and storing the data.
- Logistic regression was used to predict the anomaly state. The codes were written in Pyspark.

### Model Performance Monitoring Senior Analyst

03/2021 - Present

#### Tasks/Achievements

- Created a template to be used by the client for model performance monitoring (for XGBoost Classification models). The template was successfully used for the model monitoring of Credit Risk Monitoring System.
- It took three things into consideration: Input features (mean, median, min, max, PSI, chisq etc.) model output probability (PSI and other business-specific metrics) and classified classes and Model performance metrics (Precision, Recall, AUC, KS score).

### Platform for learning from disaster (Smart India Hackathon) Developer

#### Tasks/Achievements

- Implementing algorithms using TensorFlow framework for predicting post-disaster casualty and loss, and actions by the government such as relief funds necessary, manpower necessary etc. when a disaster is to occur.
- Involved in India's last two decade disaster data collection.

### Shopping Assistant for E-commerce (Dell Code Fest) Developer

#### Tasks/Achievements

- Voice-activated search assistant for small-scale e-commerce website using Django framework.
- Usage of basic NLP and Depth-first iterative search, Use of Google speech synthesis and recognition API.

## PUBLICATIONS

#### CHAPTER

### Brain Tumor and Its Segmentation from Brain MRI Sequences

Author(s)

Swati Pattanik, Sanjay Saxena, Puspanjali Mohapatra

2019

#### JOURNAL

### Brain Tumour Segmentation in FLAIR MRI using sliding Window Texture Feature Extraction followed by Fuzzy C-Means Clustering

Author(s)

Swati Pattnaik, Sanjay Saxena, Nitu Kumar

July 2021

## EDUCATION

### B Tech IIIT Bhubaneswar

2019

### 12th Grade DAV Public School

## TECHNICAL SKILLS

### Machine Learning Requirements

Data Mining, Data Processing, Modeling, Business Representation, Statistical Modeling

### Programming

Python (Numpy, Pandas, Scikit-learn etc., beginner in Keras, Tensorflow), R, SQL, C/C++, Matlab, Django

### Visualization

Excel, PowerBI

## EXTRACURRICULAR ACTIVITIES

> IIIT Tech Club member: Promoted programming and robotics among the students new to the technological advances. Tutored people and provided crash courses on out of syllabus topics. Organised and participated in multiple tech fests.

> ECell Member: Encourages people to take interest in starting something of their own, being an employer rather than an employee. Volunteered part-time as technical support at my family's software start-up, Silicon Tech Lab, Bhubaneswar.

## INTERESTS

Playing Sports

Listening Music

## LANGUAGES

### English

*Full Professional Proficiency*

### Hindi

*Full Professional Proficiency*

### Oriya

*Full Professional Proficiency*