

Sagnik Saha

Aspiring Data Scientist



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<https://github.com/Sagnik-source>

PROFILE

I am a Data Science enthusiast who aims at learning all the necessary concepts related to Data Science in detail. I am Curious, Hardworking, and passionate for Data Science. I have the work experience as a Business Development Executive and Educational Counselor. I am experienced at using tools such as Tableau, SQL, Python, Excel, and Finding patterns from data by cleaning, manipulating, analyzing, and visualizing them. I always look for upskilling myself so that I can be a better fit for solving any kind of business problem

I have completed my Bachelor's degree in Electronics & Communication Engineering from West Bengal University of Technology. I was a part of Entrepreneurship Development Cell where I was Public Relations & Marketing Head where I focused on Business, Marketing, Advertisement, communication and Market Trends. I have also completed some of the courses on Data Science & Analytics from Data Is Good, Python and Big Data from Udemy.

My Hobbies include reading books, reading news. Learning new technologies and tools to enhance my career and solving business problems at scale with ease.

SKILLS

- | | | |
|-------------------------------|--------------------------|------------------------|
| - Data Visualization | - Data Cleaning | - Data Mining |
| - Data Manipulation | - Data Management | - Data Modelling |
| - Data Analysis | - Quantitative Analysis | - Decision Analysis |
| - Data driven personalization | - Business Intelligence | - Predictive Modelling |
| - KPI Dashboards | - Python | - Pandas |
| - Numpy | - Probability/Statistics | - Tensor Flow |
| - Scikit-Learn | - Tableau | - Risk Analysis |
| - Pattern Recognition | - Random Forest | - Big Data |

EDUCATION

Aug 2015 – Jun 2019
Durgapur, India

B.Tech, West Bengal University of Technology

B.Tech - Electronics & Communication Engineering

It was 4 years fulltime program, where I completed Electronics & Communication Engineering (ECE) with DGPA - 7.78/10.

I have been a key part in organizing All India students conference on Innovative Technical Education in association with IET

Studied VLSI & Embedded Systems program organized by college in association with MSME Kolkata & created a Built Full Adder using Mentor Graphics where I Reduced parasites present in existing design and increased Processing speed

I organized a seminar on Solving Real Life Problem Using OOPs

I have been an involved participant in most of the campus programs, and I partnered with others in technical & entrepreneurial events and created successful projects.

PROFESSIONAL EXPERIENCE

Sep 2019 – Dec 2019
Kolkata, India

Think & Learn PVT LTD (Byjus), Business Development Associate

- Lead Generation
- Field Sales
- Cold Calling
- Achieving Weekly Target of 2.5 lacs
- After sales support

COURSES

Sep 2020 – present

Data Science Accelerator, Data Is Good

Learned the following concepts over the period of this course

- Python for Data Science
- SQL Fundamentals to deep
- Data Profiling, Statistics, and Probability
- Hypothesis Testing, Data Cleaning, Data Visualization, and Query Analysis.
- Feature Engineering, Data Preprocessing, and Dimensionality reduction.
- Various machine learning algorithms mainly tree-based models and boosting models.
- Imbalanced machine learning, Clustering analysis.
- Built various Recommendation engines.
- Time Series Forecasting.

Oct 2020 – Nov 2020

Complete Python Programming Masterclass Beginner to Advanced, Udemy

- Learnt Proper Python Syntax
- Learnt Basics of Programming with Python (Variables, Operators, Logic)
- Developed Python Modules to Create Re-Usable Code
- Worked with Python Loops to Repeat Blocks of Code
- Learnt Object Oriented Python Programming Concepts

Sep 2020 – Oct 2020

Big Data and Hadoop for Beginners - with Hands-on, Udemy

- Understood different technology trends, salary trends, Big Data market and different job roles in Big Data
- Understood what Hadoop is for, and how it works
- Understood complex architectures of Hadoop and its component
- Hadoop installation on your machine
- Understood how MapReduce, Hive and Pig can be used to analyze big data sets
- High quality documents
- Demos: Running HDFS commands, Hive queries, Pig queries
- Sample data sets and scripts (HDFS commands, Hive sample queries, Pig sample queries, Data Pipeline sample queries)
- Wrote my own codes in Hive and Pig to process huge volumes of data, designed your own data pipeline using Pig and Hive
- Understood modern data architecture: Data Lake
- Practice with Big Data sets

PROJECTS

Soccer Player's Performance Analysis

- 19 complete player dataset has been used in this project to perform the entire Exploratory Data Analysis. FIFA
- Before starting the Soccer player's performance analysis, I did all the steps in the data preprocessing lifecycles, such as performing descriptive statistics, checking Missing Values in a Dataset, imputing Missing Values using business logics, and Feature Engineering.
- Performed Univariate, Bivariate, and Multivariate analysis using several plotting techniques such as Scatter plots,
- Distribution plots, Pie charts, Bar Charts, Violin Charts, Box plots, Boxen plots.
- Analyzed the performance metrics of players based on their ground positions, skills, nationality, clubs, age, height, weight, and understanding the major factors driving the performance of these players.

Optimizing Agricultural Production

- Prediction of the best crop grown as per the individual season
- Factors involved in Growth of specific crops
- Visualization of the data in an interactive model to have the required knowledge of parameters necessary for growing good crops..
- Building a model to predict the particular crop that should be grown as per the atmospheric condition which in turn can be fruitful in obtaining maximum profits thereby helping in growth of business.
- K-Means algorithm to perform clustering analysis to find the pattern and type of crops which will suit a particular climate
- Performing Logistic Regression for doing predictions of the best suitable crop as per climate.
- Visualizing the Impact of Different Conditions on Crops

Optimizing Investments in Stock Market

- Worked on Jupyter Notebooks, installed required Libraries.
- Summarized the data.
- Visualized the data in an interactive format.
- Applied Sharpe Ratio in the data.
- Performed comparative analysis.
- Applied statistics to perform analysis..
- Analyzed the key Findings and Insights to implicate Business Impact.
- Compared Amazon and Google data.
- Calculated Daily Stock Returns.
- Calculated Excess Returns.
- Calculated the Sharpe Ratio.

Analyzing the Trends from IPL Matches

- Performed Univariate analysis on the columns present in the dataset.
- Performed ad-hoc analysis to find out specific answers.
- Used Interactive Widgets and carry out Interactive analysis.
- Got Insights and Patterns from Data Visualizations.
- Performed Filtering Operations for finding answers to specific questions.
- Manipulated data to perform different kinds of analysis.
- Performed Comparative analysis.
- Used Statistics and Probability to find out Interesting facts about the data.
- Analyzed Toughest IPL Matches.

Predicting Health Expense of Customers

- Performed Univariate analysis on the columns present in the dataset.
- Performed Bivariate analysis on the columns present in the dataset.
- Used Facetted Charts for Multi dimensional visualization.
- Handled Categorical Data.
- Learnt to add extra variables in Charts.
- Performed Feature Scaling.
- Built Predictive Model using Linear Regression.
- Built Predictive Model using Random Forest.
- Built Predictive Model using Gradient Boosting.
- Performed Cross Validation.
- Analyzed the Performance of these Predictive Models.
- Analyzed the key Findings and Insights to implicate Business Impact.