

Sourav Mandal *Financial Analyst*

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☎ +91 7908790565 📅 27/11/1998 🇮🇳 Indian in sourav-mandal-390064210 🔄 Sourav9827 📁 Portfolio



👤 Profile

Highly motivated Financial Analyst with expertise in data analysis, financial modeling, and risk assessment. Proficient in Excel, SQL, and Python. Strong track record of delivering accurate financial insights under tight deadlines. Effective communicator and team player. Committed to driving financial success for the organization.

🧠 Skills

Data Analytics (SQL, Tableau, PowerBI, Snowflake, Pentaho etc.)

Machine Learning (Linear and Logistic Regression, SVM, Xgboost, Random Forest, Naive Bayes etc.)

NLP (NLTK, Machine Learning, RNN, LSTM, GRU, Self-Attention model, Transforms, Chatbot etc.)

Python (Pandas, Numpy, Matplotlib, Seaborn, Flask, Plotly, Dash, Sklearn etc.)

Databases (SQL and Mongo DB.)

Big Data (PySpark, Hadoop, Kafka and Spark)

Deep learning (ANN, CNN and RNN)

Team Leader (I lead a group of interns under me, monitor their work and as a team we solve various task in Highway Delite.)

MLOps (Github Action, CI/CD pipelines, Deployment Techniques In AWS,AZURE, Dockers And Kubernetes, MLflow, DVC.)

MS-Office (Advanced Excel, Power point, Word, Access.)

Cloud Services (AWS, Azure, Heroku, Render etc.)

Computer Science (Python, SQL, Machine Learning and Data Science)

Teaching (Data Science, Mathematics and Computer Science)

📄 Certificates

Data Analytics Consulting Virtual Internship(KPMG)
(Data Quality Assessment Data Insights Data Insights and Presentation May 8th, 2021)

Data@ANZ Program (Exploratory Data Analysis Predictive Analytics May 13th, 2021)

Full Stack Data Science (ineuron.ai)

Python for Data Science and Machine Learning Bootcamp
(udemy)

Introduction to Machine Learning (Coursera)

Data Science foundations (Great Learning)

🎓 Education

Full Stack Data Science program, ineuron.ai 🔗

03/2022 – 03/2023

Data Science and Analytics, Machine Learning, Deep Learning and Big data basics.

Diploma in Information Technology,
Nehru Yuva Computer Shiksha Kendra

02/2021 – 02/2022 | Chakdaha, India

Typing, MS Office, Advanced Excel, HTML, CSS and Basic C Programming.

💼 Professional Experience

Data Science SME, Vertocity

03/2023 – present | Remote, India

Creating Dashboards, Generating Insights and Automation.

Providing Training on Data Science and Analytics.

SQL, Advanced Excel, Python, Statistics, Machine Learning, Power BI, Time series analysis, Deep Learning and NLP.

Data Analytics intern, ineuron.ai 🔗

05/2023 – 07/2023 | Remote, India

- **Project Title:** NBA Data Analytics Project
- **Tools:** Python, SQL and Power BI
- **Final Output:** A presentation of the findings, including visualizations and recommendations.
- **Roles and Responsibilities:**
 - Collected(Webscrapping) and cleaned NBA player data.
 - Developed and executed data analysis queries.
 - Created visualizations of the data.
 - Presented the findings and documentations to stakeholders.

Data Science Intern, ineuron.ai 🔗

12/2022 – 02/2023 | Remote, India

- **Project Title:** News Article sorting
- **Objective:** To classify news articles into predefined categories like Sports, Technology, Entertainment, etc. using deep learning methods.
- **Tools:** Python, Google's BERT model, Azure App Services, Flask, HTML/CSS, Pandas, NumPy, Scikit-learn, TensorFlow, and Keras.
- **Final Output:** Achieved 97.96% accuracy on test set, deployed model on Azure App Services using Flask web app for predictions
- **Roles & responsibilities:**
 - Pre-processing the data to make it suitable for the model
 - Fine-tuning the BERT model for News Category Classification
 - Developing the Flask application for the model
 - Deploying the model on Azure app services
 - Testing and debugging the application
 - Documentation of the project

Teacher(Mathematics and CS), Self Employed

2017 – present | Chakdaha, India

- Freelancing Teacher of Mathematics and Computer Science
- Creating Presentations and Learning designs for everyday classes.
- Good understanding of Concepts and Application in real life situations.
- Noticeable improvements in Student's Academic results.

Associate, Highway Delite

02/2022 – 11/2022 | Remote, India

- Building database for highway related data.
- Train and monitor the work of new interns.
- Research and create documents for tourism data
- Verify and upload the highway information in the backend of the website

Data Analyst Intern, The Sparks Foundation

08/2021 – 09/2021 | Remote, India

- Prediction using Supervised ML
- Prediction using Unsupervised ML
- Exploratory Data Analysis - Retail
- Exploratory Data Analysis - Terrorism
- Prediction using Decision Tree Algorithm

Bachelor in Education (B.Ed), W.B.U.T.T.E.P.A

09/2021 – 09/2023 | Santipur, India

On-site School Teaching Internship, Seminars, Micro-teaching, Presentations, Models, Learning Designs etc.

M.Sc Mathematics(Pure), University Of Kalyani

08/2019 – 08/2021 | Kalyani, India

- Specialization in Complex Analysis and Differential Geometry.
- Advanced Research Project on Wave Equations.

B.Sc (Hons.) Mathematics, University Of Kalyani

07/2016 – 07/2019 | Kalyani, India

Courses

Associate Financial Analysis, invact.com

06/2023 – 12/2023

TensorFlow Developer Certificate: Zero to Mastery, Udemy

08/2023 – 12/2023

Prompt Engineering, deeplearning.ai

04/2023 – 04/2023

Introduction to R Software, NPTEL

09/2020 – 11/2022

Learning Analytics Tools, NPTEL

07/2021 – 10/2021

Probability for Computer Science, NPTEL

07/2021 – 10/2021

Introduction to Machine Learning, NPTEL

07/2021 – 09/2021

Data Analytics with Python, NPTEL

01/2021 – 04/2021

Data Science for Engineers, NPTEL

01/2021 – 03/2021

Programming, Data Structures And Algorithms Using Python, NPTEL

09/2020 – 11/2020

Introduction to R Software, NPTEL

09/2020 – 11/2020

Python for Data Science, NPTEL

09/2020 – 10/2020

Languages


English • Hindi • Bengali

Declaration

I hereby declare that all the information furnished above is correct to the best of my belief. I am responsible for the authenticity of all the information.

Sourav Mandal
Chakdaha, 31/12/2023

Projects


Adult Census Income Prediction project, Developed A web application using FastAPI framework in Python using Ensemble Machine Learning Algorithms to predict Income of The Customers. 

Objective: To develop a Python-based machine learning model for predicting adult income levels. It is currently in the deployment phase.

Tools: Python, ML algorithms, FastAPI app, railway.ai for hosting, Circle CI for CI/CD.

Methodology: Using Python libraries like scikit-learn and pandas, the project preprocesses data, engineers features, and trains the ML model on labeled adult census data. Model evaluation achieved an 83% accuracy on the test dataset.

Results: The ML model achieved 83% accuracy, demonstrating its effectiveness in predicting adult income levels.

Adidas Sales Dashboard, Created a sales dashboard using Excel, Power Query, and DAX to analyze sales trends, improve forecasting, and marketing strategies for Adidas. 


• **Objective:** Create a sales dashboard for Adidas to visualize and analyze sales data.

• **Tools:** Excel, Power Query, DAX.

• **Methodology:** Extracted and transformed data from multiple sources, created calculated columns and measures, and designed interactive visuals.

• **Results:** Provided insights into sales trends, product performance, and customer behavior, leading to data-driven decisions.

• **Impact:** Improved sales forecasting, inventory management, and marketing strategies for Adidas.

HR Attrition Dashboard, Excel-based HR dashboard improved employee retention and engagement. 


• **Objective:** Create a dashboard to analyze employee attrition and provide insights for HR decisions.

• **Tools:** Excel, Power Query, DAX.

• **Methodology:** Extracted and transformed employee data from multiple sources, created calculated columns and measures, and designed interactive visuals.

• **Results:** Provided insights into attrition rates, reasons, and patterns, leading to data-driven decisions.

• **Impact:** Improved employee retention, engagement, and satisfaction for the company.

Customer Details Dashboard, Excel-based customer dashboard provided insights and improved business performance. 


• **Objective:** Create a dashboard to analyze customer data and provide insights for business decisions.

• **Tools:** Excel, Power Query, DAX.

• **Methodology:** Extracted and transformed customer data from multiple sources, created calculated columns and measures, and designed interactive visuals.

• **Results:** Provided insights into customer demographics, behaviors, and preferences, leading to data-driven decisions.

• **Impact:** Improved customer retention, acquisition, and satisfaction for the business.

California House Price Estimation, Predictive Modeling for California Housing Prices: Harnessing Data for Accurate Price Projections. 

• **Objective:** Develop a predictive model for California house prices using machine learning.

• **Tools:** Employed Python, Pandas, Scikit-Learn, XGBoost for data analysis and modeling, Github actions and Heroku.

• **Methodology:**

– Implemented regression models, feature engineering, and hyperparameter tuning.

– Led data pipeline creation & model deployment for real-world application.

• **Results and Impact:** Achieved a robust model with 92% accuracy, aiding in informed real estate decisions and enhancing market understanding.