

Sourav Mandal *Data Analyst*

📍 Vill.:Rajbagan, P.O.: Chakdaha, Dist.: Nadia, State: West Bengal, Pin: 741222 ✉ mandal.srv1998@gmail.com

☎ +91 8618241725 📅 27/11/1998 🇮🇳 Indian in sourav-mandal-390064210 🔄 Sourav9827 📁 Portfolio



👤 Profile

A highly motivated and detail-oriented Data Analyst with experience in data analysis, data visualization, and data management. Skilled in SQL, Python, Excel, and Power BI. Strong analytical and problem-solving skills, with the ability to extract insights from complex data sets. Proven track record of delivering high-quality work under tight deadlines. A quick learner and team player who is always willing to go the extra mile to ensure project success.

🧠 Skills

Teaching (*Mathematics and Computer Science*)

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

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

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

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

Deep learning (*ANN, CNN and RNN*)

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

📄 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

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

09/2021 – present | Santipur, India

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

Full Stack Data Science program, ineuron.ai 🔄

03/2022 – 03/2023

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

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

👛 Professional Experience

Subject Matter Expert, Vertocity

03/2023 – present | Remote, India

Training students 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

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.



Courses

Associate Financial Analysis, *invact.com*

06/2023 – present

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, 29/07/2023



Projects

Earthquake Analysis, *Created Earthquake Analysis Dashboard, predicted risk & intensity, improved disaster response.*

- **Objective:** Analyze earthquake data and create a predictive model for earthquake risk and intensity.
- **Tools:** SparkR, Power BI.
- **Methodology:** Created an ETL pipeline using SparkR to ingest and clean data. Built a machine learning model to predict earthquake risk and intensity. Visualized the results using Power BI.
- **Results:** Provided insights into the earthquake patterns, hotspots, and trends. Predicted the countries at risk for earthquakes and their intensity levels.
- **Impact:** Improved disaster preparedness, risk mitigation, and emergency response strategies for the affected regions.

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.

Adventure Works Reports, *Analyzed sales data for Adventure Works Cycles using Power BI*

- Created a comprehensive dashboard that allowed the sales team to track their performance and identify opportunities for improvement
- Created a dashboard to track key performance indicators such as sales, revenue, profit, and returns
- Utilized Power BI features such as filters, slicers, and visualizations to present the data in an interactive and easy-to-understand format

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.

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.