

SAMIR SENGUPTA

Data Scientist

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SUMMARY

Experienced Data Scientist proficient in Large Language Models (LLM), Machine Learning (ML), Artificial Intelligence (AI), and Deep Learning techniques. Skilled in Python libraries such as NumPy, Pandas, Scikit-learn, TensorFlow, and Keras, with expertise in advanced analytics and model development. Possesses a strong foundation in SQL databases, Tableau, and Power BI for effective data visualization and analysis. Capable of implementing cutting-edge algorithms and models to efficiently address complex challenges in the data science industry. Dedicated to leveraging AI, LLM, and data visualization skills to drive innovation and continuous improvement in solving real-world problems.

EDUCATION

Bachelors in Data Science

March 2023

University of Mumbai

Mumbai, India

Acquired Skills: Deep Learning, Machine Learning, Artificial Intelligence, Databases, Neural Networks.

Higher Secondary Education (Science)

July 2020

University of Mumbai

Mumbai, India

Acquired Skills: Chemistry, Information Technology, Physics, Mathematics, Statistics.

WORK EXPERIENCE

Associate Software Developer Python and Machine Learning, Amigosec Synradar

Aug 2023 – Present

- Spearheaded the migration of the entire code base from PHP to Python, resulting in a remarkable 160% increase in overall system speed and performance.
- Developed a robust Python application using Flask to proactively safeguard clients from cyber-attacks, demonstrating a commitment to enhancing security measures.
- Implemented artificial intelligence and machine learning techniques to optimize the code base, leading to significant time savings and automation of critical processes.

Data Analyst & Backend Developer, Profit Maxima

Aug 2022 – July 2023

- Conducted data analysis on stock market data using Python and SQL, driving a 25% increase in client satisfaction with investment recommendations.
- Created interactive data visualizations, leading to a 20% reduction in response time for client queries.
- Optimized backend infrastructure with MySQL, resulting in a 40% decrease in data retrieval time and improved operational efficiency.

Data Scientist, Neural Thread (Internship)

Jan 2021 – July 2022

- Engineered ML models for precise customer churn prediction, resulting in a significant increase in customer retention rates from 71% to 93% annually.
- Applied cutting-edge deep learning algorithms to enhance the precision of Predictive Analytics Solutions, achieving a better prediction accuracy of 42%.
- Led K-means clustering initiatives for dynamic customer segmentation, optimizing targeted marketing strategies.
- Developed and implemented tailored retention models, resulting in a substantial increase in customer loyalty from 47% to 83%.

PROJECTS

Movie Recommendation System

March 2023

- Created a movie recommendation system using the TMDB API with content-based filtering.
- Deployed and hosted the system on a Stream lit server.
- Performed sentiment analysis using NLP techniques and deployed the application with Stream lit for user interaction and visualization.

Music Mate: Song Downloading System

May 2023

- Developed a music downloader using the Spotify API and Python Tube (PyTube) library to download songs from Spotify playlists or YouTube videos.
- Built a Flask backend to handle API requests for downloading songs based on user input.
- Designed a front-end interface with HTML, CSS, and JavaScript for user interaction and input of Spotify playlist or YouTube video URLs.

Laptop Price Prediction

June 2023

- Developed a Stream lit-based application for real-time laptop price predictions using a trained machine learning model.
- Enabled users to input laptop specifications and obtain accurate price estimates for the given configuration.
- Implemented data preprocessing techniques and leveraged the trained model to provide instant price predictions on the Stream lit interface.

Customer Segmentation

Nov 2023

- Conducted K-means clustering for customer segmentation based on Annual Income and Spending Score.
- Visualized clustering results and identified 5 distinct customer segments.
- Provided actionable insights for marketing and business strategies based on customer segmentation.

Power BI Sales Forecasting Dashboard

Jan 2024

- Developed a Power BI dashboard for sales forecasting, integrating data analysis and visualization to provide actionable insights.
- Implemented advanced forecasting models to predict sales trends and optimize business strategies.
- Streamlined decision-making processes by presenting comprehensive sales analytics in an interactive and user-friendly interface.

Flight Price Prediction

Feb 2024

- Implemented a machine learning model to predict real-time flight prices, enhancing accuracy through regression analysis.
- Enabled users to input flight details and receive accurate price estimates, streamlining travel planning.
- Utilized data preprocessing techniques for optimal model performance and presented results on a Streamlit interface.

ADDITIONAL SKILLS & CERTIFICATIONS

- Technical Skills: Python (NumPy, Pandas, Scikit-learn, TensorFlow, Keras), SQL (MySQL, PostgreSQL), Tableau, Power BI, R programming, Machine Learning, Deep Learning, Data Processing, Artificial Intelligence.
- Soft Skills: Collaborative teamwork, Communication, Problem-solving, Attention to detail, Time management, Adaptability, Continuous learning, Critical thinking, Leadership, Analytical thinking.
- Certifications: Google Certified Data Analyst, Blockchain Technology, Power BI, MySQL, Machine Learning, Recommender System, Adobe Photoshop, Advanced Excel, Python.