

# Shushant Ghosh

Boston, MA

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Data scientist adept at leveraging machine learning, statistics, and programming to transform data into actionable insights.

Available from May to Dec 2024(Spring 2025)

## EDUCATION

**Northeastern University, Boston, MA**

**Expected April 2025**

Master of Science, Data Science

**GPA:3.5**

Relevant Coursework: Supervised Machine Learning, Natural Language Processing (NLP), Algorithms, Introduction to Data management and Processing, Large Language Models, Unsupervised learning

**Kalinga Institute of Industrial Technology, BBSR, IN**

**Jun 2017 - May 2021**

Bachelor of Technology, Computer Science and Engineering

## WORK EXPERIENCE

**Associate Software Developer, Higradius Technologies — Odisha, IN**

**Jul 2021- Jul 2022**

- Delivered an average 90% modeling accuracy on Invoice Payment Date Forecasting by utilizing regression models such as XGBRegressor, LightGBM, etc., leading to identification of delinquent invoices for multiple B2B clients.
- Performed customer segmentation and clustering by analyzing payment patterns using Tableau and Python libraries such as sklearn, matplotlib and seaborn, resulting in a significant prediction improvement by 40%.
- Preprocessed and analyzed diverse, large-scale client datasets using SQL, numpy and pandas.
- Delivered insightful modeling outcomes and data visualizations to B2B clients, leveraging adept communication and presentation skills enhancing customer acquisition initiatives.

**Data Science Intern, Higradius Technologies — Odisha, IN**

**Jul 2020 - Jun 2021**

- Assisted Data Scientists and the collections department to implement and deploy efficient MLOps pipelines, resulting in a 30% enhancement in timely revenue collection.
- Boosted collection strategies and cash flow by 25% through AI-driven Predictive and Statistical Modeling.
- Automated data preprocessing, feature engineering and selection by scripting modular python functions, coupled with meticulous version control using Git, achieving 60% reduction in implementation efforts.
- Promptly collaborated with B2B clients to grasp their business strategies, deploying ML models on their AWS servers.

## PROJECTS

**AI-Enabled Fintech B2B Invoice Management Application — Higradius Technologies**

- Performed data collection, preprocessing 1 million financial records, preparing them for modeling.
- Introduced an AI-driven partial payment prediction feature using Time Series forecasting (XGBoost,LightGBM).
- Developed a Full Stack Invoice Management Application Dashboard, aimed at reducing the collection timeline by 25%.

**EEG Signal Classification for electrical signals from wheelchair Brain-Computer Interface — Northeastern University**

- Preprocessed the raw electrical signals by filtering and denoising, followed by segmenting them into windows.
- Transformed the windows using Fourier Transform and extracted features based on time-freq, skewness and kurtosis.
- Trained an AI model to predict the direction vector using the engineered features achieving a 60% accuracy.

**Generative Modeling on Medical Dialogues using GPT neo — Northeastern University**

- Conducted data mining, preprocessing and cleansing procedures on LFQA Patient Doctor Dialogues.
- Performed exploratory data analysis using NLP techniques and fine-tuned GPT-Neo 1.3B on the preprocessed data.
- Leveraged Large Language model architecture to develop a generative model producing responses for patient queries.

## TECHNICAL SKILLS

**Programming Languages:** Python, R, JavaScript, SQL, Java

**Technologies & Tools:** scikit-learn, SciPy, nltk, spacy, Transformers(BERT, LSTM), TensorFlow, PyTorch, Tableau, Git, MapReduce, MongoDB, AWS, Azure, MS Excel, PowerBI.

**Certifications:** [Introduction to Data Science in Python \(University of Michigan\)](#).