Jesmine Chaudhuri

Data Scientist

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SUMMARY

Data Scientist with strong engineering background and hands-on experience in **Python, SQL, machine learning,** and **applied statistics**. Built and deployed **classification** and **regression models**, performed **EDA** and **feature engineering,** and integrated **ML/LLM** solutions into production systems. Brings **13+ years** of software engineering experience with a strong focus on **data-driven decision-making** and **real-world problem solving**.

CORE SKILLS

Data Science & ML: **Python** (pandas, NumPy, scikit-learn), **Statistics**, **EDA**, **Regression, Classification, Trees, Ensembles, Feature Engineering, Model Evaluation**, **ML Engineering & GenAI**: **FastAPI, LLMs** (OpenAI, LLaMA), **LangChain, AWS**, **Engineering: SQL** (MySQL, PostgreSQL), **Ruby on Rails, Git, CI/CD**

EXPERIENCE

Career break | *Nov 2024 – Jan 2026*

- Care giving for my family during a medical emergency; now open to full-time opportunities.

Associate Technical Architect — Tavant Technologies, Bengaluru | *Dec 2022 – Oct 2024*

- Built and deployed classification and regression models using Python and scikit-learn.
- Designed data pipelines and FastAPI services to serve ML predictions in production.
- Integrated OpenAI and LLaMA models using LangChain for document summarization and Q&A automation

Technical Lead — Encora Innovation Lab, Bengaluru | *Mar 2021 – Dec 2022*

- Owned backend design/reviews, CI, and delivery; partnered with clients; mentored developers.

Engineering Manager — Cerner Healthcare Solutions India Pvt. Ltd., Bengaluru | *Dec 2019 – Nov 2020*

- Drove delivery for patient portal initiatives; hands-on backend, deployments, and U.S. stakeholder coordination.

Principal Engineer — WinWire Technologies, Bengaluru | *Feb 2016 – Nov 2019*

- Led offline marketing campaigns module; CI/CD, testing strategy, 3rd-party API integrations, client reporting.

Senior Software Engineer — Idexcel | *Feb 2015 – Feb 2016*

- Backend development, bug-fixing, deployments, task delegation.

Senior Software Engineer — Indusnet | *Feb 2015 – Feb 2016*

- Backend development, bug-fixing, deployments, task delegation.

Senior Software Engineer — Prime Access | *Jan 2014 – May 2014*

- Backend development, bug-fixing, deployments, task delegation.

Application Programmer — WebSpiders / *Feb 2013 – Dec 2013*

- Backend engineering and maintenance across projects.

Software Developer — Circar Consulting | *May 2011 – Jan 2013*

- Backend engineering and maintenance across projects.

SELECTED PROJECTS

Industry / Product:

- **Clockwise MD (ExperityHealth)** — Healthcare appointment booking; Rails 6, Ruby 3, PostgreSQL, Sidekiq, RSpec.
- **HealtheIntent (Cerner)** — Patient portal (immunizations, wellness campaigns, enrollment, admin tooling); Rails/React, AWS, MySQL, Nginx.
- **SmartTargeting 5.0 (SmartZip)** — Lead targeting for real estate; Rails, AWS, MySQL.
- **Cync (ParkSterling)** — Borrowing Base automation for lenders; Rails/MySQL.
- **Tech-nerd** — E-commerce for tech apparel; Rails/MySQL. • OurProjectTeam — Project-communication platform; Rails/MySQL.
- **Scribd (AI/ML/LLM)** — Data analysis & GenAI: Python, scikit-learn/TensorFlow, MySQL; LLMs (OpenAI/LLaMA) + LangChain for summarization/Q&A/document automation.

Data Science / ML:

- **Applied Statistics** — EDA, visualization, hypothesis testing for decision support.
- **Unsupervised Learning** — Car segmentation with clustering, PCA; SVM exploration.
- **Supervised Learning** — Classification (logistic, kNN, NB, SVM); handling imbalance/missing data.
- **Ensembles & Churn** — Telecom churn prediction with Trees, RF, XGBoost, AdaBoost.
- **Feature Engineering & Tuning** — Yield prediction (semiconductor) with FE, PCA, grid search.
- **Recommendation System** — Popularity + collaborative filtering for mobile recommendations.
- **NLP & CV** — Text classifiers/regressors; street-digit image classifier (DL/TensorFlow).
- **Sequential NLP** — LSTM/GloVe classifiers for media & social analytics.

EDUCATION / CERTIFICATIONS:

- PGP in Artificial Intelligence & Machine Learning — UT Austin & Great Lakes (Jun 2022 – Sep 2023)
- MBA (Information Systems) — Sikkim Manipal University (2016 – 2019)
- MCA — West Bengal University of Technology (2007 – 2010)
- B.Sc. Physics — University of Calcutta (2004 – 2007)
- DevOps training (2021–22)
- O-level (2003–05)