# joydeep bhattacharjee

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*Data science and NLP engineer with industry experience building and delivering intelligent features end-to-end. Author of 2 books on ML. Always interested in opportunities broadening hands-on experience and getting exposure to working on challenging problems.*

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## Technical Skills

**Likes:**    python tensorflow pytorch huggingfacetransformers nlp

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## Experience

*Jan 2021 → Current* **Engineering Manager** – yellow.ai
python, tensorflow, pytorch, huggingface-transformers, nlp

Machine Learning - Deep Learning - Development and Team Mentoring

- Design and implement next generation AI/NLP infrastructure for building and deploying thousands of models at scale in conversational AI.
- Responsible for research, development, production, and scaling of full pipeline of message flow and other intelligent NLP systems in multi-lingual and multi-modal contexts.
- Research, implementation, benchmark existing literature for various purposes.
- Leading the team which works in parallel and in collaboration to produce custom-made algorithms using machine learning/Deep learning frameworks-libraries like torch/hugging face/TensorFlow.
- Prepare production-ready code with pre/postprocessing and native scaling in Kubernetes or on-prem environment.
- Responsible for all MLOps, Cloud infra management for ML-related service.
- As a lead, I am answerable for client issues ( explanation on models prediction and performance), custom requirements, new product feature exploration, POCs, architecture and design discussion, problem solving, hiring, mentorship and other decision making tasks.

*May 2019 → Jan 2021* **Technical Lead - Retail Demand Forecasting** – Nineleaps Technology Solutions
python, data-science, time-series, apache-spark, hbase, teradata

- Design ML and Optimization architectures for Inventory Forecasting and Optimization system for 40000 products across thousands of stores.
- Design solutions for enhancements to the forecasting model.
- Deployment and maintenance of highly available forecasting application.
- Led POCs for exploring new forecasting methods and technologies.
- Time Series analysis of various KPIs.
- Assisting business with Forecast accuracy reporting.
- Build a team from scratch for the successful delivery of the product.

*May 2017 → May 2019* **Team Lead - Models as a Service for Medical Analytics Application** – Nineleaps Technology Solutions
python, amazon-web-services, apache-spark, pandas, neo4j, airflow

• Architected and built model-serving infrastructure for NLP models

- Auto-scaling cluster of 50+ deep-learning models
- Large-scale online and offline serving meeting throughput of 1M+ prediction requests a day

• Built the model deployment lifecycle from ground up: model versioning, deployment, monitoring and dashboarding

- Enabled push button deployment of ML models

• Public health knowledge graph:

- Built ETL pipelines, data-access and querying layer for graph DB at a scale of 1B+ edges and 200M+ nodes

*Nov 2016 → May 2017* **Category Head - Python** – HackerEarth
python

- Work on "practice" product for B2C engagement.

*Aug 2015 → Oct 2016* **Software Engineer** – <u>SLK Software Services Pvt Ltd</u>
python, websphere

In SLK, I was working on different applications appropriate to business needs primarily using python.

*Dec 2011 → Jul 2015* **Systems Engineer** – Tata Consultancy Services
python, websphere, web

- Work on custom automation tools for J2EE applications.

## Education

*Aug 2007 → Jul 2011* **Bachelor of Technology, Electrical** – National Institute of Technology Silchar

## Others

*Dec 2019* **Practical Machine Learning with Rust** – Book
machine-learning, rust

Explore machine learning in Rust and learn about the intricacies of creating machine learning applications. This book begins by covering the important concepts of machine learning such as supervised, unsupervised, and reinforcement learning, and the basics of Rust.

*Jul 2018* **fastText Quick Start Guide** – Book
python, machine-learning, nlp, fasttext, command-line, gensim

A book targeted towards data analysts, data scientists, and machine learning developers who want to perform efficient word representation and sentence classification using Facebook's fastText library.