

Sangeet Mishra

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Education

Indian Institute of Technology (IIT) Kharagpur

Kharagpur, India

Bachelor in Technology

2016–2020

Activities: Kharagpur Open Source Society, Signal and Image Processing Lab, Quiz Club

Experience

Confluent

Bangalore, Karnataka

Software Engineer - Kafka Connect

Jan 2023–Present

- Added AWS IAM AssumeRole authentication support to Debezium MySQL connector
- Developed OpenSearch Sink connector for data streaming from Kafka topics to OpenSearch indexes
- Improved Oracle CDC Source Kafka Connector performance by 20%, added support for PDB only mining mode and extended compatibility with the latest Oracle23AI version
- Fully automated the Cloud release for Connectors to Confluent Cloud increasing release frequency by 100% with pre-prod canary testing and phased rollouts on connect clusters on k8s with monitors and alerts
- As SME for Snowflake Sink, JDBC & ActiveMQ connectors, added features to connectors and drove RCCAs
- Developed PR gating for Connect Cloud microservices for p0 integration testing

JP Morgan Chase and Co.

Mumbai, Maharashtra

Quantitative Research Analyst

Jul 2020–Dec 2022

- Developed **regression testing** using multiprocessing and created mail alert system using **SMTP and MIME**
- Developed **auto-doc** to automatically generate documentations, reducing time taken from **4 hours to 10 seconds**
- Developed Expected Loss models for Debt Portfolios exceeding 500Bn USD using statistical methods
- Worked on Model Forecasting Engine across 5+ models leveraging **multiprocessing**
- Improved performance of existing backtesting engine **by upto 20x** by efficient vectorized implementation
- Worked on data processing, validation and backtesting of Expected Loss models

Google Summer of Code - Python Software Foundation

Remote

Software Developer

Summer 2018

- Enhanced the grepping system of Mercurial to add '–all' flag and 'grep' on history as per the Grep Plan
- Improved 'diff' functionality in Mercurial to show colorised in-line diff and better 'diff' output of tests suite results
- Worked on multiline commit message support
- Added passing of revision number instead of revision hash to histedit mercurial extension

Anheuser-Busch InBev

Bengaluru, Karnataka

Data Science Intern

May 2019–Jul 2019

- Built an automated Data Visualization pipeline from the Data Lake using Python Scripting and SQL Queries
- Brought insights from the employees data and built tool to identify relevant clusters of concern
- Used Machine Learning models like Random Forests to find major drivers for Employee Attrition in the organization

Skills

Skills: Backend (Go/SpringBoot), Devops (Docker, Kubernetes, Git)

Languages: Java, Go, Python

ML/Data TensorFlow, Scikit Learn, PyTorch, OpenCV,

Volunteer Experience

Kharagpur Open Source Society

IIT Kharagpur, West Bengal

Advisor and Former Executive Head

Oct 2017–Present

- Contributed to the development of KWoC 2017 Website with more than 2700 registrations [KWoC 2017](#)
- Mentored students in Kharagpur Winter of Code 2017 : **Generative Adversarial Networks**
- Successfully conducted the first ever Open Source Summit during the Tech Fest of Kshitij 2018 and in Kshitij 2019