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, Karanataka**
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