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, MetaKGP

Experience

JP Morgan Chase and Co.   **Mumabai, Maharashtra**
Quantitative Research Analyst   Jul 2020–Present
  – 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 under 10 seconds**
  – Developed Expected Loss models for Debt Portfolios exceeding 500Bn USD using Python and R using statistical methods
  – Worked on Model Forecasting Engine across 5+ models leveraging **Low Level Design** concepts and **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
  – Fixed and improvised the grepping system of Mercurial to add '–all' flag and 'grep' on history as per the Grep Plan
  – Improved functionality of 'diff' 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

Autonomous Underwater Vehicles   **IIT Kharagpur, West Bengal**
Software Team   Feb 2017–March 2018
  – Implemented Deep Learning methods for buoy detection using Single Shot Multi Box Detector and Mobile Nets
  – Made the inference of models fast and suitable for the bot using Movidius Neural Compute Stick and reduced the cost

Skills

Skills: Linux, Backend (Spring, Maven), Frontend (HTML, CSS, JS, React), Devops (Docker, Git, GitHub)
Languages: Java, Python, C++, JavaScript, R
ML/Data TensorFlow, Scikit Learn, PyTorch, Keras, OpenCV, FastAI

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

Projects

AudAn: Smart India Hackathon
  – Developed AudAn, an app doing Cognitive Analysis of students in a classroom to evaluate their performance
  – Qualified to Top 6 Nationally in the AI for Education theme in Smart India Hackathon 2019 by Govt. of India

VySyBI
  – Won 1st Prize in Xilinx Innovation Challenge 2019 among 11 different engineering institutes across India in KTJ'19
  – Developed a Blind Assistant System on Xilinx PYNQ Board by building an Image Captioning and TTS pipeline