

Kaustav Ghosh

twice Ex-Samsung SDE intern | ex-SDE intern @ HevoData

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EDUCATION

BTech in Computer Science & Engineering Manipal Institute of Technology

06/2018 - 06/2022

8.54/10

Courses

- All Lab Work Repository [🔗](#)
- Data Structures and Algorithms + Competitive Programming Repository [🔗](#)

WORK EXPERIENCE

Software Development Engineer Intern Hevo Data

01/2022 - 06/2020

Achievements/Tasks

- Designed and implemented an end-to-end connector and SDK for the data source, Braze, a SaaS platform by deciding the source objects, the polling strategies, building the SDK authentication, models, Feign client, and the connector offset, tasks, and services for polling each source object. This was supplemented by appropriate error handling for Socket Connection and Polling
- Worked on and resolved several bugs on already existing connectors tracked by Sentry and Coralogix
- Resolved Google Big-Query & Marketo On-call issues
- Developed Unit tests for Outbrain.

Software Development Engineer Intern Samsung R&D Institute, Bangalore

06/2021 - 07/2021

Achievements/Tasks

- Designed and implemented MQTT bridge functionality in Moquette, an open-source lightweight Java MQTT broker
- Implemented a socket programming system for transfer of messages between the MQTT message broker and the bridge client
- Implemented a lexical analyzer to parse the user-specified configuration of the bridge properties

RESEARCH WORK

Samsung PRISM - Intelligent Ranking for Dynamic Restoration of Next Generation Wireless Networks (09/2020 - 03/2021)

Implemented Machine Learning algorithms and Feature Engineering techniques to predict KPI values for eNodeB-s and consequently a ranking system to orderly restore them during network failure.

TECHNICAL SKILLS

Linux

C/C++

Java

Python

ReactJS

Redux

Redux Toolkit

RTK Query

NodeJS

ExpressJs

MongoDB

MySQL

Cloudinary API

Maven

Junit5

Git and GitHub

Jira

Confluence

Agile

Docker

Kubernetes(fundamentals)

PERSONAL PROJECTS

Notesups - A Lecture Notes Sharing Platform (03/2022 - Present) [🔗](#)

- Implemented the frontend using ReactJS and vanilla Redux, Redux Toolkit and RTK Query for state management, Framer Motion for animations and Styled Components for styling, Media Queries for responsive design, Sass for CSS pre-processing and Font Awesome for icons.
- Implemented the backend using NodeJS and ExpressJS for server-side rendering, used MongoDB for NoSQL DB, cloudinary for pdf and metadata storage, and PassportJS for JWT authentication and Social Login.
- Implemented functionality to synchronize the note products between cloudinary and MongoDB.
- Integrated Payment gateway Stripe for creating subscription payments and working on integrating razorpay.
- Deployed the frontend on Netlify and backend on Heroku [🔗](#)

Microsoft Student Partners - Machine Learning Bootcamp (04/2020 - 06/2020) [🔗](#)

- Guided a team of 10 individuals to collaborate and accomplish a Regression task of price prediction of used cars.
- Performed Feature Engineering to extract the most important attributes of the data-set using Uni-variate and Multi-variate Filtering techniques, Mutual Entropy Gain Filtering and also feature selection using RMSE Regression and ANOVA Test.
- Performed basic Data wrangling and processing using Numpy and Pandas and visualised it using Matplotlib and Seaborn and finally built the machine learning model using an XGboost Regressor.
- Also completed a Mini Project on extensive Data Visualisation and Analysis using Matplotlib and Seaborn to gather useful insights of the data [🔗](#)

Finland Labs & IIT Roorkee - Time Series Forecasting, Data Analysis and Web Scraping (04/2020 - 04/2020) [🔗](#)

- Prepared a complete Data Analysis report on the World-wide COVID-19 attack statistics and used the Facebook's fbprophet Time-series Forecasting library to speculate the number of active corona victim cases in the upcoming days.
- Created neural networks from scratch which facilitated in implementing a machine learning model to recognize the function of an XOR gate without explicitly being programmed.
- Trained a Deep Learning model with TF2 and Keras API for MNIST Handwritten digit Recognition.