

Shivam Singha

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🎓 Summary

Full Stack Web & Mobile App Developer with experience in developing cross-platform products, exploring MLOps, AIoT & Embedded Systems, love contributing to open source projects in free time.

🎓 Education

Central Institute of Technology Kokrajhar

Bachelor of Technology (BTech / BE)

2019 – 2023

Computer Science and Engineering

🔧 Experience

Cliently

August 2021 – April 2022

Full Stack Javascript Developer & MLOps Engineer

Remote

- > Made interactive plots for advanced data science. Created high-performance custom data tables.
- > Moved existing application to a microservice architecture based on AMQP & scaled ML pipelines.
- > Refactored a massive Reactjs codebase, optimized re-renders & improved performance by 500%.

ProtonAutoML

April 2021 – August 2021

Full Stack Javascript & Python Developer

Remote

- > Made a full stack web app for Timeseries machine learning & prediction.
- > Refactored ML code written in python. Created AutoML pipeline for Timeseries analysis.
- > Worked with Data Scientists to create ML Pipelines from Jupyter Notebooks and integrate with web app.

Webcited

December 2020 – March 2021

Full Stack Javascript Developer

Remote

- > Created a one-click web host migration solution with a web app & browser extension.
- > Created a zero code PaaS form submission system to be used after migration.

🔧 Projects

AIoT food storage management system

github.com/shivamsingha/aiot-food-storage

- > IoT & ML with real-time monitoring to control the storage silo's climate, detect pests, predict food spoilage and reduce wastage. Arduino, Laravel, FreeRTOS, MQTT, and sklearn used.

Titanic Survival Predictor

github.com/shivamsingha/titanic-survival-predictor-react

- > An end-to-end Machine Learning pipeline with a web app that predicts whether a Titanic passenger with given data would have survived the crash. Made using React, expressjs, python, and sklearn.

CIT Unofficial App

[CIT Unofficial App on Google Play Store](#)

- > A React Native app that notifies users when new info is posted on the CIT website and saves notices locally. Data is collected by web scraping using Nodejs.

Math expression solver with steps

github.com/shivamsingha/mathexpsolver1

- > Written in python, this step-wise math solver solves basic mathematical expressions by following BODMAS/PEMDAS. One unique feature of this solver is that it also supports floating point numbers (decimal numbers) and produces accurate step-by-step solutions with descriptions for each step.

Minimal Smart Home system from scratch

github.com/shivamsingha/smarthome

- > Minimal cheap smart home system made from scratch allowing remote control of lights or any plug outlet. Runner up at Jawaharlal Nehru Science Exhibition 2017-18. Made using C, PHP, and JQuery running on Raspberry Pi.

⚙️ Skills

Languages, Data Science & AI Javascript, Typescript, Python, C, C++, Java, SQL, PHP, R, Tensorflow, sklearn

Web, Mobile & Native React, React Native, Nextjs, Nodejs, MongoDB, Redis, Postgres, Android, Electron, GTK

IoT FreeRTOS, CircuitPython, Arduino, Raspberry Pi, Espressif ESP Platform

Infrastructure AWS, GCP, Nginx, Docker, Kubernetes, Serverless, Linux, DevOps, Microservice, RabbitMQ

⚙️ Certifications

NPTEL Python for Data Science [NPTEL19CS59S41410092](#)

NPTEL Practical Machine Learning with Tensorflow [NPTEL19CS81S31410048](#)