

TUSHAR MITTAL



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tusharmit
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Machine Learning Engineer

Skills

PROGRAMMING LANGUAGES

Python
JavaScript
C/C++
Shell

SOFTWARE DEVELOPMENT

SQL
NoSQL
Node.js
Flask
Selenium
Git

TOOLS & LIBRARIES

TensorFlow
Apache Spark
Pandas
OpenCV
Scikit Learn
Keras
NLTK
Numpy

MLOPS

AWS
Kubernetes
Docker
Argo
MLFlow

Achievements

Selected to attend GSoC Mentor Summit in Germany

Kaggle Discussion Expert

Runner Up at HCL AI Hackathon

Runner-Up at Smart India Hackathon 2019

Selected as Mentor at Hack in the North (IIIT Allahabad) and Hack on Hills (NIT Hamirpur)

Contributed to Open Source Projects such as: Pandas, FOSSASIA, AboutCode, CloudCV

Employment

Peak

Machine Learning Engineer

Oct. 2020 to Current

- Developed fully managed services for **Time-Series Forecasting** and **Product Recommendation** on top of AWS.
- Created framework for building configurable **Data Pipelines**, which ran as scheduled jobs on **Spark**. This processed **50GBs** of data everyday and eased Data Scientist's work.
- Implemented **Serverless MicroServices**, used **CloudFormation** as an IaC tool along with other **CI/CD** best practices.
- Technologies used:** AWS, Apache Spark, Node.js, PostgreSQL, K8s, Docker, Argo, MLFlow

Precily

Data Science Intern (NLP)

New Delhi

Jan. 2020 to Sept. 2020

- Worked on various **Semi-supervised** and **Unsupervised** techniques for **text classification** and **similarity**.
- Implemented new models by reading **research papers** and made modifications to already implemented **SOTA models**.
- Worked with domain experts to understand, clean and model the **legal text data**.
- Worked on **testing** of the models and **deploying** them to **production**.

SPDX

Google Summer of Code Intern

Remote

Apr. 2018 to Aug. 2018

- Built an online **XML editor** which can be used to create and edit the **SPDX Licenses**.
- Included features such as making **automatic pull request** on **GitHub**, **beautifying XML**, **generating diff** and **validating XML schema**.
- Technologies Used:** Django, SQL, JQuery, JavaScript, CSS, HTML ([Link](#)) ([Commits](#))

Projects

Games Anomaly Detection

- Freelance** project for a **Gaming Startup** to detect **anomalies** in **scores of games** played by users.
- Used extensive **Data Analysis** on **Unlabelled Data** and trained a **Decision Tree model**.
- Model achieved **99% Recall** score after **2 weeks** of being deployed.

Video Sentiment Analysis

- Trained custom **SSD Mobilenet** Object Detection Model to detect **cartoon faces** in a video.
- Trained a **CNN classifier** to predict the **expression** using the bounding box image.
- Technologies used:** TensorFlow, OpenCV, Numpy, PIL ([Link](#))

Data Extraction using OCR

- Built **API** to extract **Dates** and **Amount** from images of **Bill Receipts**.
- Various **image processing** techniques were used to **improve accuracy**.
- Technologies used:** PIL, OpenCV, Tesseract, Numpy ([Link](#))

Education

Kanpur Institute Of Technology

Aug. 2016 to July 2020

Bachelor of Technology (B.Tech) Computer Science and Engineering

CGPA: 7.8/10.0

Coursera

Machine Learning by Andrew Ng

Deep Learning Specialization

Introduction to MongoDB

Activities

Intel AI Student Ambassador

Intel AI Ambassador are student technology leaders, empowered to build machine learning and **AI communities** on their campus and share their deep knowledge with their fellow students. Organised **workshops** and **seminars** on AI related topics. ([Link](#))

GitHub Campus Expert

GitHub Campus Experts is a community of students aimed at building **technical community** at their campus. Completed training modules provided by GitHub. Organized **event**, **workshops** and **meetups** at various colleges. ([Link](#))

Volunteering

Google Code-In Mentor · CloudCV

Oct. 2018 to Jan. 2020

Implementing new features, suggesting improvements and fixing bugs in the projects.

Helping the school students to contribute to the project and reviewing their work. ([Link](#))

Kanpur Python & PyData Meetup · Organizer

June 2017 to Current

Giving talks on topics related to Python, Data Science, Machine Learning and various frameworks in Python. Helping people with their doubts and bugs, and building a community of people who love to code and are eager to learn. ([Link](#))