

# SHUBHAM SHARMA

## Project Engineer

An experienced ML Engineer with 2 years of experience in Machine Learning and NLP holding a strong interest in mathematics and statistics with a passion for innovation and research transforming business objectives into actionable management insights and solutions.

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## WORK EXPERIENCE

### Software Developer Wipro limited

06/2019 - Present

Kolkata, India

Developed a SOAR web application which is a platform for complete lifecycle management of security incidents, alerts, and service requests.

#### Tasks

- Automated the service requests and security tickets using a flask-based web microservice which included various operations like predicting classification, priority, severity, etc. of the tickets, triaging them, and recommending various solutions to resolve them improving the performance of real-time business activity monitoring report and reducing the report response time by more than 50%.
- Solely Developed a microservice to perform malware analysis on suspicious items which included executable files, pdf, word documents, etc using predictive modeling, post conducting an in-depth study of the gap between the ideal and on-ground practices for malicious activity detection.
- Implemented and administered Auto creation of workflow using a brief description which helped to decrease the dependency upon knowing the code. It included various grammar rules written in spacy and embedding techniques like word2vec, tfidf, and pre-trained embeddings to find the similarity.
- Designed a platform using python to develop/train various machine learning models, data preprocessing, and visualization features enabling end-users to onboard new metrics into the self-serve data system and experimentation platform.
- Implemented solution recommendations for an incident ticket which recommended top results after analyzing the ticket and the past analyst choices were also taken into account while giving the recommendations.
- Translate operator business objectives into business intelligence through regressive data analytics
- Develop and improve predictive models to optimize the user experience and operational efficiency.
- Actively participated and contributed to the internal AI initiatives.

Contact: Dipanjan Pradhan - 9674445047

## EDUCATION

### PG Diploma (Specialisation in Deep learning) IIT Ropar (Ongoing)

06/2021 - 06/2022

### B.Tech

Vellore Institute of Technology

05/2015 - 05/2019

8.2

## TECHNICAL SKILLS

Python C++ Flask  
Machine Learning Numpy Pandas  
Tensorflow Spacy DSA  
SQL Server Docker Angular 2+  
HTML 5 NLTK Selenium  
Exploratory Data Analysis

## ACHIEVEMENTS

### Prodigy Award (04/2020)

This reward recognizes the employee's coding skills and out-of-the-box idea contribution to the AI fields in the HOLMES department at WIPRO.

## PERSONAL PROJECTS

### Amazon Recommendation System (09/2019)

- Designed a system recommending various products to the customer based upon their browsing history and interest.
- Suggested similar products to a user using Content-based Recommendations using product descriptions and images.
- CNN was used to extract features from an image and a universal sentence encoder was used to get word embeddings.

### Stackoverflow Tag Predictor (04/2020)

- A multi-label classification problem using one vs rest classifier to predict tags.
- Macro F1 achieved was more than 0.5 on a dataset of 50k rows and 500 unique tags.

### Microsoft Malware Detection (07/2020)

- Predicted 10 different malware classes using .asm and .bytes file.
- XG-boost was used which gave the log loss of about 0.03.

### Inventory Management (08/2020 - 09/2020)

- Built a website using angular 9 which displayed the number of items available in an online inventory and highlighting all low-stock items. End users could also add or delete items from the inventory.

## CERTIFICATES

Applied AI training (02/2019 - 08/2019)

Angular Training (12/2020 - 02/2021)