

SURAJ MEENA

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suraj-meena

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Education

Indian Institute of Technology, Kanpur

Bachelor of Technology in Materials Science & Engineering, CPI 7.1/10

Jul 2017 – Jun 2021

Kanpur, Uttar Pradesh

Experience

HSBC Software Development India

Jul 2021 – Present

Senior Software Engineer

Trading Insights and Actions

- Engineered a **microservice** from scratch to predict HSBC's benefits from trading patterns generated for the sales team
- Overhauled the **React** frontend, enhancing UI/UX and performance for sales insights and actions
- Adhered to best practices, utilizing **Jest** for unit testing and **BDD** for comprehensive business use case coverage

Remote Desktop Lifecycle Management

- Simplified the provisioning of remote desktops, cutting delivery time from **5 days to only 1 day**
- Leveraged **FastAPI** & **pytest** to create RESTful APIs, enabling seamless integration of diverse bank services
- Eliminated weekly & monthly manual tasks by automating the decommissioning of unused & orphaned machines
- Drove **Docker** incorporation in Python, Node.js, and React repositories, reducing developer onboarding time by 40%

Vulnerability Management Portal

- Built a web tool that predicts affected apps based on vulnerability details from concept to deployment
- Saved 45 hours by automating 2 day's manual work with an efficient **Angular** and **Django**-based automation
- Optimized large dataset processing with batching & **server-side pagination**, reducing page load times by 70%
- Reduced upload and export time by 80% using **Pandas**, **SqlAlchemy**, and **ODBC** drivers for processing millions of rows

Estimation Poker

- Developed a tool for agile Estimation & Planning using **Node.js**, **Angular** & **WebSockets** for live relay of information
- Built-in integration with Jira to automatically populate stories and store estimation results for each selected sprint
- Incorporated **Single Sign On** (SSO) to automatically log in users via their Active Directory (AD) credentials

RHA Technologies Pvt Ltd

Jun 2020 – Aug 2020

Software Developer Intern

- Programmed a Match Rhyming Words Game using **HTML**, **CSS**, and **JavaScript** to aid learning among children
- Designed a platform to query and store Google search ranking of a domain for a keyword using **Flask** and **SQLite**
- Analyzed and scrapped data from various websites with the help of **Python** and **BeautifulSoup** for data validity

Projects

Sentiment Analysis on Twitter Data

Jan 2020 – Apr 2020

IIM Ranchi

- Scraped 10k tweets with hashtags related to online food delivery services like Swiggy, Zomato, and Foodpanda
- Pre-processed and visualized data using **word cloud**, **word frequency**, and **regression graph**
- Optimized a **deep learning LSTM** model and created a classification report using **Keras**, **Tensorflow**, **Sklearn**

Porto Seguro's Safe Driver Prediction Kaggle Dataset Exploration

May 2019 – Jul 2019

IIT Kanpur

- Formulated a model to predict whether the customer would file an insurance claim during a period of interest
- Created models to predict insurance claims for next year using **Decision Tree**, **Naive Bayes**, **XGBoost**
- Applied **data pre-processing** techniques, computed **confusion matrix** and **ROC curve** for the above models

Technical Skills

Familiar Programming Languages: Python, C, C++, HTML, CSS, JavaScript

Web Dev Tools and Techniques: Django, Flask, React, Angular, WebSockets, Node.js, Docker

Machine Learning Tools: Pandas, Numpy, Keras, Scikit-learn, Rstudio

Awards and Achievements

- Awarded HSBC's **Pat on the Back** for fast software delivery with exceptional quality, saving time and costs (2022)
- Qualified for **State Level** of National Talent Search Examination (**NTSE**) 2015-16 among 8+ lakh candidates (2016)
- Secured **AIR 1630** in National Level Science Talent Search Examination 2015 among 20,000+ candidates (2015)