SURAJ MEENA

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Education

Indian Institute of Technology, Kanpur   Jul 2017 – Jun 2021
Bachelor of Material Science & Engineering, CPI 7.1/10   *Kanpur, Uttar Pradesh*

Experience

HSBC Software Development India   Jul 2021 – Present
Vulnerability Management Portal
- Built a web tool that predicts affected apps based on vulnerability details from concept to deployment
- Completely automated 2 days of manual work using automation built on top of **Angular** and **Django**
- Enhanced CRUD operations for upload and export of **millions** of rows using **Pandas**, **SqlAlchemy** & **ODBC** drivers
- Utilized optimal approaches such as **batching** & server-side pagination to process large data & achieve faster page loads

Estimation Poker
- Developed a tool for agile Estimation and Planning using **Node**, 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

Notable Contributions
- Designed, developed, tested, and maintained several automation utilities using Django, React, Angular and NodeJs
- Worked closely with the backend & design team to translate wireframes and mockups into a functional **React** website
- Provided bug fixes and updates for the sign-in system on public facing website to improve security and usability

RHA Technologies Pvt Ltd   Jun 2020 – Aug 2020
Intern
- Built a Match Rhyming Words **Game** using **HTML, CSS**, and **JavaScript** to aid learning among children
- Developed a platform to query and store Google search ranking of a domain for a keyword using **Flask** and **SQLite**
- Created a **Google Chrome extension** to transform and analyze data from Google cards and maps using **jQuery**
- 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
Department of Information Systems, 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**
- Solved problems from diverse fields in data science like **market basket analysis**, **anomaly detection**, and more

Porto Seguro's Safe Driver Prediction Kaggle Dataset Exploration, IME672   May 2019 – Jul 2019
Department of Industrial and Management Engineering, IIT Kanpur
- Formulated a model to predict whether the customer would file an insurance claim during a period of interest
- Performed extensive **data exploration and visualization** to gain insights using R and Python
- 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, JS
Web Dev Tools and Techniques: Django, Flask, React, Angular, WebSockets, NodeJs
Machine Learning Tools: Pandas, Numpy, Keras, Scikit-learn, LDA, 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 organized by NCERT   (*2016*)
- Secured **AIR 1630** in National Level Science Talent Search Examination 2015 among 20,000+ candidates   (*2015*)

Leadership

Senior Executive Events, Udghosh IIT Kanpur   Aug 2018 – Oct 2018
- Successfully orchestrated the tournament comprising over **30** volleyball teams from various Indian colleges
- Led a team of **13** undergraduates and **coordinated** timely and meticulous organization of **26** sport matches