Jay Janodia

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SOFTWARE DEVELOPMENT ENGINEER

Data driven Software Development Engineer with career expertise in working on enhancement tickets to improve customer experience. Adept in using text analysis to determine scope of augmenting. Collaborative professional skilled in helping customers to migrate from a proprietary platform to TypeScript.

TECHNICAL SKILLS

Languages – Advanced: Python, MySQL. Intermediate: R, MATLAB, Java, Shell. Basic: NoSQL, C, C++.
Libraries – Pytorch, Tensorflow, Matplotlib, NumPy, Pandas, Scikit-Learn, NLTK, OpenCV, SciPy, Seaborn, SpaCy
Web Development – Advanced: HTML, CSS. Intermediate: Bootstrap, JavaScript, TypeScript, Jest. Basic: NodeJS

EDUCATION

Master of Science: Computer Science and Engineering, 2022
Santa Clara University, CA
Worked under a professor for the AI City Challenge.

Bachelor of Engineering: Computer Engineering, 2020
Pune Institute of Computer Technology, India
Member of Institute of Electrical and Electronics Engineers (IEEE). Development Volunteer for the PICT IEEE Student Branch (PISB)'s technical event, 'Credenz'. Designed the web pages for the competitive coding events, 'Clash' and 'Reverse Coding'.

PROFESSIONAL EXPERIENCE

Amazon, Sunnyvale, US 05/2022-03/2023
Software Development Engineer
Worked with the Datapath Team on several enhancement tickets which led to improved customer experience and product stability.

- Helped the customers to migrate from a proprietary platform to TypeScript.
- Built a Unit-testing module using shell scripting and Java based on Jest framework for customers to test their TypeScript code. This substantially reduced the unit testing cycle time by 500%.
- Provided on-call support for the platform and resolved various high-severity tickets related to product stability.

Tata Consultancy Services, Pune, India 12/2019-03/2020
Development Intern
Worked as an AI engineer in the CoE for Artificial Intelligence.

- Studied TCS's IT operations landscape, discovered opportunities for automation. Built solutions to automate, and realized the benefits. Automated Service request resolution for infra resource augmentation for demanding workloads.
- Used text analysis of tickets to determine the scope of augmenting and triggering the infra-addition using Ansible and vSphere APIs.
- Reduced the resolution time from 30 minutes to a couple of minutes.

TECHNICAL PROJECTS

Multi-Class Multi-Movement Vehicle Counting Using IoT devices, — 02/2021-10/2021

- Participated in the AI City Challenge. Created an online vehicle counting algorithm and tuned its parameters using Computer vision libraries, Yolov5 Framework for object Detection and Tensorflow and Pytorch libraries for training the models.
- Reduced time taken to run the program by 80% while keeping the accuracy intact.

Helmet Detection from Real-Time Surveillance Cameras (Undergraduate Final Year Project),07/2019-07/2020

- Detected whether a bike-rider is wearing a helmet or not using object detection and trained a custom model using custom data, using technologies like Python, YOLOv3 framework for Object Detection and deep learning algorithms (Convolutional Neural Network).
- Received accuracy of 71.76% on testing manually.

Recipe Prediction — 12/2020-02/2021

- Performed classification on text data to classify based on the ingredients and description of a food item what class of items it belonged to by taking text data as input, performed various text preprocessing algorithms on the text, analyzed the data using visualization techniques, performed feature extraction and then applied the KNN model on the dataset. F1 score of 88.17% obtained.

Peptide Classification — 02/2021-03/2021

- From a given sequence of data (Proteins), needed to find whether a Protein is an antibiofilm or not using Machine learning Algorithms (KNN Classifier, Multi-Layer Perceptron, SVM, Decision Tree, Naïve Bayes, Adaboost and XGBoost).
- An MCC Score of 89.76% was obtained.

Simple Paraphrase Detection — 01/2019-04/2019

- Built a simple paraphrase detection model that can detect whether two sentences are duplicates of each other.

CERTIFICATIONS

Udemy – Machine Learning A-Z: Hands-On Python & R in Data Science – Udemy (2019), Complete Python Bootcamp: Go from zero to hero in Python 3 - Udemy (2019), Python for Computer Vision with OpenCV and Deep Learning - Udemy (2020)
Coursera – Neural Networks and Deep Learning – Coursera (2019), AI for Everyone - Coursera (2020)
HackerRank – Problem Solving (Intermediate), Python (Basic), Problem Solving (Basic)