

Jalpa Deepak Patel

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SUMMARY

- Innovative AI researcher and developer at the University of Windsor and previously with WinAIML
- Developed REST APIs for Customer and CRM applications, which impacted business growth by 10%
- Experienced in designing mobile applications and Web Applications by performing system design analysis
- Experience in tutoring by creating custom material which increased student's academic performance
- Skilled in data modeling and visualization to implement ML models and deploy on AWS and Google Cloud

EDUCATION

M.Sc. in Computer Science, Co-op | University of Windsor

Windsor, ON | December 2022

B. Tech in Computer Science | Jawaharlal Nehru Technological University

India | June 2018

SKILLS

Python, AI, NLP, AWS, Kubernetes, Docker, pyTorch, TensorFlow, Keras, Java, C, PHP, C#, R, Bash, SQL, MATLAB, SAP ABAP, AngularJS, NextJS, JavaScript, HTML/CSS, TailWind, Bootstrap, Spring, Maven, MySQL, MongoDB, Firebase, Oracle, Git, Node.js, Linux, REST API

WORK EXPERIENCE

Data Science Intern | DATA GLACIER

Remote | Jul 2022 - Present

- Implemented Data Science skills like EDA, data pre-processing, modelling for different projects
- Lead project team to implement customer segmentation by developing task breakdown and timeline
- Experience in hosting and maintaining ML pipeline on Heroku
- Created and maintained documentation for different phases of project

Graduate Assistant and Tutor | UNIVERSITY OF WINDSOR

Windsor, ON | Jan 2020 - Present

- Lead assistant for Database, Systems Programming, Comp. Architecture and Foundations of CS
- Tutor for Design and Analysis of Algorithms for concepts such as Complexity Analysis
- Instructed in writing optimal code to address problem-solving, time and space complexity
- Automated the task of loading the student submissions on local machine using Python scripts

IT/Software Developer- Coop | GROUND EFFECTS LTD.

Windsor, ON | May 2020 - Aug 2020

- Reduced website load time by 20% by optimizing data loading and management from MySQL Relational Database
- Optimized MySQL database queries, stored procedures, and the efficiency of SQL Server Reporting Services
- Worked on report customizations and writing custom multi-select dropdown driver using Node.js

Software Engineer | IESOFT TECHNOLOGIES PVT. LTD.

India | May 2018 – Jul 2019

- Handled customers, orders, and inventory data on a scalable database system on different servers
- Implemented agent route tracking system, which accelerated business growth by 15
- Simplified the use of CRM System by developing elastic search and CRON job APIs

Intern (Software Developer) | TECHNOLEXIS PVT. LTD.

India | Jan 2018 – May 2019

- Worked on photogrammetry and IoT project to create a 3D Body Scanner
- Programmed to save the results from the sensors and hardware devices to meet the project requirement
- Achieved the target of creating a 3D printed model from photos by programming sockets and using Python

VOLUNTEER EXPERIENCE

Open-Source Developer | PATHWAYS EDUCATION

Toronto, ON | Aug 2021 - Dec 2021

- Worked on developing a platform for **Open-Source** developers to contribute
- Conducted relevant **market-scan** and checked the relevant **software development guidelines**

Machine Learning Researcher | WINAIML

Toronto, ON | Mar 2020 - Sep 2020

- Worked on **Machine Learning** tasks involving **Exploratory Data Analysis(EDA)** and **NLP**
- Contributed by preparing and maintaining **datasets** for the research project
- Developed baseline Machine Learning Models to compare with the proposed research model and documented the findings

PROJECTS

Revenue Forecast Prediction Using Graphs and Deep Learning

TIME SERIES, SENTIMENT ANALYSIS

- Implemented bi-directional LSTM model for revenue prediction before release of movie
- Generated Graph embedding to consider social connections of actors. Performed sentiment analysis on movie plots

Resource Allocation Optimization using RL

PYTHON, REINFORCEMENT LEARNING, BIG DATA

- Optimized the allocation of resources on cloud computing system using a reinforcement learning algorithm
- Reduced data loss during training of model to increase model efficiency using Python

Malware Prediction on various devices

PYTHON, DEEP LEARNING, AUTOENCODERS, EDA

- Classified malware-based applications using Autoencoders
- Increased the efficiency of Autoencoders algorithm by comparing it to different Deep Learning models

Social Media Content Analyst Tool

PYTHON, NLP, DATA ANALYSIS, SOCIAL NETWORK ANALYSIS

- Designed a system to identify reliable tweets on microblogging websites like Twitter
- Used Social Network Analysis to find groups of Informative Tweets and used State of Art models