Jinay Panchal

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EDUCATION

Indiana University Bloomington August 2022 - July 2024
Masters of Science in Computer Science, ***CGPA: 3.67/4.00*** Bloomington, Indiana
Relevant Coursework: Elements of AI, Applied Machine Learning, Applied Algorithms

Parul Institue of Engineering and Technology, Parul University August 2016 - July 2020
Bachelor of Technology, Computer Science and Engineering, ***CGPA: 8.91/10.00*** Vadodara, India
Relevant Coursework: Data Structures & Algorithms, Web Technologies, Discrete Mathematics, Statistical Methods, DBMS, Operating Systems, Distributed systems, Software Engineering

TECHNICAL SKILLS

Programming/Query Languages: Python, C++, Core Java, C, SQL, SOQL, Apex, LaTex
Web Technologies: HTML, XML, JSON, CSS, JavaScript (beginner level) REST APIs, Django
Libraries/Technologies: Pandas, NumPy, SciPy, Matplotlib, Sklearn, OpenCV, TensorFlow, ML & DL Algorithms
Databases: MySQL, PostgreSQL, MongoDB, Neo4j
Dev Tools: Git, JIRA, NetBeans, Anaconda, PyCharm, VS Code, Jupyter, Android Studio

PROFESSIONAL WORK EXPERIENCE

Conga (Ex-Apttus), India Feb 2021 – July 2022
Associate Software Engineer

- Assisted 100+ partners and B2B enterprise-level customers by resolving their production-down issues related to the integration of custom code in Apex Custom classes, Triggers, Workflow Rules, Process Builders, Custom objects, fields, and formulae.
- Troubleshooted and resolved **80%** issues for **3K** end users by delivering root cause within 24-Hr window using various Conga products including **Conga CPQ, CLM, XAC, XAE, Billing, and Approvals** on **Salesforce.com**, by tracking fixes with **JIRA**, with overhauling CSAT of 4.9/5.

TECHNICAL PROJECTS & RESEARCH EXPERIENCE

Tour Management System [Django, Python, React, Render] Feb 2023 - Apr 2023

- Implemented user authentication and dual-factor authentication with Google, ensuring security and usability.
- Collaboratively developed a flight booking management system with dynamic tracking of prices dependinig on the number of users
- Designed and developed a city-wise accommodation booking system with check-in and check-out date features, enabling users to easily search and book hotels.
- Integrated Amadeus hotel booking self-service API for seamless hotel bookings, improving the user experience.
- Demonstrated ability to work with Restful APIs and integrate third-party services into a larger application.

FaceTrack [Flask, OpenCV, Deep Learning] Feb 2023 - Apr 2023

- Developed a deep learning and OpenCV-backed facial recognition attendance marking system, using Flask as an interactive dashboard for attendance tracking and reporting.
- Integrated DBSqlite database to store and manage attendance data.
- Performed **ETL** (Extract, Transform, Load) operations to extract attendance data from the database, transform it to generate insights, and load it into the dashboard for visualization.

Sales Insights - Motor & Bricks Business [Python, SQL, PowerBI] Jan 2023 – Jan 2023

- Designed a **Power BI** dashboard to understand and visualize AtliQ hardware goods sales trend.
- The final dashboard was effective at displaying the sales trend of AtliQ hardware, allowing users to understand the data and make informed decisions
- Used **SQL** for data extraction, transformation, modelling and retreival, leveraging the information impacting the revenue growth possibly by 7% for next quarter.

Hidden Markov Chains for POS Tagging [Basyesian Inference, HMM, ML] Oct 2022 - Nov 2022

- Built a part of speech tagger using Hidden Markov Chains for Japanese, English, and Hindi with an accuracy of **92%, 90%, and 88%** accuracy respectively.

Map Navigation [Python, Graph Algorithms] September 2022

- Implemented Google Maps traversal program in Python using A* search algorithm, for United States regions to find the shortest distance path between any two cities.

Brain Stroke Prediction July 2021 – Aug 2021

- Implemented Machine Learning algorithms like Decision Tree, Logistic Regression, KNN, Random Forest, SVM on a data set of **9000** records, used co-relation and covariance to predict the exact features resulting high chances of a brain stroke

- Performed exploratory data analysis, compared different ML algorithms, achieved the highest accuracy with Decision Tree Classifier with **93%.**
- **Deployed** the model on static UI made of HTML and Flask on local host to get the predicted results with the data entered statically.

COVID-19 Analysis April 2020 – May 2020

- Created a ***Tableau Public Dashboard*** for analyzing the increasing COVID cases worldwide from Jan 2020 to April 2020

Safety Watch ensuring Security Sep 2019 – March 2020

- Built an IoT-based prototype with a 'panic key' button using Raspberry Pi, Pi Camera, GPS Module, and Arduino, which on pressing will take pictures of the surroundings, transferring them to the server.
- Initiated an **FRCNN** algorithm with the help of Python and libraries like OpenCV, NumPy, Sci-kit, trained the model with 1000+ images as a data set for threat detection, achieving **81%** accuracy (with machine constraints)
- ***Publication:*** ***Smart Watch Ensuring Safety and Security****, International Research Journal of Engineering and Technology (IRJET), Volume 08: Issue 12 December 2021.*

Pedal Scanner App Mar 2018 - March 2018

- Developed Java-based Android App, implementing Google Maps API, providing bicycles on campus using QR Code in university-level hackathon in 48 hours.

Real-Time Chat App Aug 2017 - Sept 2017

- Individually created a real-time chat app using NodeJS and SocketIO for web socket using HTML, CSS, and JavaScript.

AWARDS & ACHIEVEMENTS/CERTIFICATIONS

- Secured University fully funded Merit Scholarship for Bachelor's Program at Parul University, 2016-2020.
- Machine Learning with Python – IBM Cognitive Class
- Machine Learning A-Z: Hands-on Python & R in Data Science by SuperDataScience