ARNAV SRIVASTAVA

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Arnav Srivastava / mearnav / mearnav

OBJECTIVE:

Enthusiastic and optimistic professional with a pursuing a Master's in Data Science. Proficient in Python, with strong problem-solving skills and the ability to develop effective solutions. Passionate about applying technical expertise to derive insights, drive data-driven decisions, and contribute to innovative projects. Adaptable and results-oriented, with a proven track record of excelling in challenging environments and achieving meaningful outcomes. Committed to continuous learning and expanding knowledge in data science, machine learning, data visualization, programming, and systems analysis. Eager to apply and enhance skills to create value in dynamic and collaborative settings.

SKILLS:

Python, C++, Flutter, SQL, React JS, Machine Leaning, Object oriented programing, Data visualization, Jupyter Notebook, AWS, GitHub, VS Code, OpenCV, HTML, JavaScript, CSS, Pandas, NumPy, YOLO, TensorFlow, Matplotlib, Android Engine Studios, UI/UX Design.

CERTIFICATES:

- AWS Academy – Cloud Operations
- Introduction to SQL- datacamp
- Google – Crash Course on Python
- Supervised Machine Learning – Regression and Classification
- Introduction to Data Analysis using Microsoft Excel - Coursera
- C++ (5 stars and Golden Badge) – HackerRank
- C Language (4 stars and Silver Badge) - HackerRank

EXPERIENCE:

Primewayz Infotech Pvt. Ltd. – Intern | *New Delhi, India • 06/2023 – 09/2023*

Technology Used: React JS, OpenCV, HTML, CSS and JavaScript

About Project: A web application that lets user check servicing history and status, easily schedule service appointments with a choice of day and location and get car details via the license plate.

- Developed an image processing model using OpenCV and React JS to meet client requirement.
- Implemented component for appointment scheduling module using React JS.
- Built search bar and car service status indicator using React JS. Structured the layout using HTML, styled the app using CSS. Used JavaScript to retrieve the servicing information, verified user inputs. Worked with OpenCV to process number plate images for optical character recognition.
- Tested Error Handling, Search Functionality, Service booking and details retrieval module.
- Helped team members executing test cases, troubleshooting problems and documenting their outcomes, reducing workload burden and allowing for increased focus on high-priority assignments.
- Gained hands-on experience in React JS and OpenCV, increasing proficiency and expanding technical skill set.

KPMG – Data Analytics Consulting Virtual Intern | *Lucknow •03/2023 – 08/2023*

Technology Used: Data Analysis, Data Visualization and Data Quality Auditing

- Created data validation utility to analyze source system data to return acceptable records to downstream system using python script. Audited customer data to ensure accuracy, quality and completeness for analysis.
- Created a Python tool that uses RFL model to perform thorough demographic and attribute analysis to find high-value target clients.
- Created reports and visual representations of utility findings using Python, Pandas, Matplotlib.
- Analyzed problems and worked with team to develop solutions.
- Explored new technologies and approaches to streamline process.

PROJECT DETAILS:

Game Recommendation System | *Bloomington, USA •09/2024 – 12/2024*

Technology Used: Python, Content Based Filtering, Collaborative Filtering, Google Colab and Kaggle.

- Created a system that suggests game based on user preferences. After doing data cleaning and preparation, two sizable from Kaggle were combined to create a single merged dataset.
- Performed EDA to analyze data dependencies and built the model using collaborative and content-based filtering.
- Encountered several difficulties along the process, including issues with input matching, data cleaning, model scalability and user personalization.

Smart System for Workplace Posture Monitoring using Deep-Learning based CNN | *INDIA •02/2024 – 06/2024*

Technology Used: Python, OpenCV, TensorFlow, Keras, PyTorch, NumPy, Pandas.

- Created a sophisticated system that uses deep learning techniques to track and evaluate employee posture in real time.
- Using surveillance footage and integrated real-time video processing, posture is continuously monitored and assessed.
- Created and refined Convolutional Neural Networks (CNNs) to identify and categorize different postures at work.
- Gathered workplace surveillance footage, labeled with posture tags, and applied preprocessing steps like normalization, data splitting and scaling.

Accident Detection System using Surveillance camera with YOLO v8 Deep Learning Algorithm | *INDIA •08/2023 – 12/2023*

Technology Used: Python, YOLO, OpenCV, TensorFlow, Keras, PyTorch, NumPy and Pandas.

- Created a system that uses surveillance camera data to automatically identify traffic accidents in real life.
- Convolutional neural network (CNNs) for scene classification and object recognition were created and refined.

- Large datasets were used to train the models, increasing the resilience and accuracy of detection.
- Traffic scene surveillance footage was used to gather data. Labels for accident and non-accidents were added to the images.
- Real-time video feed was captured using OpenCV, and the trained YOLO model was utilized to overlay the result of the detection.

Health-Care Chatbot | *INDIA •02/2023 – 06/2023*

Technology Used: Python, tKinter, OS, Web Browser, NumPy, Pandas and Matplotlib.

- Created a health-care domain chatbot to mimic the forecasts of a general physician.
- With its ability to respond to both general and in-depth inquiries, this health-care chatbot system will assist hospitals in offering online healthcare support around-the-clock.
- It also facilitates lead generation and instantly forwards lead data for sales. It aids patients by leading them toward what they are specifically seeking for by asking the questions in a series.
- Among its features are the Register Screen, Sign-in Screen, Database Generation for user login system, and a GUI-Based chatbot for patient diagnosis [Pragmatic Diagnosis Approach], suggests a suitable medical professional for you considering the following symptom.

Loaner-Request Project (Capstone Project) | *INDIA 08/2023 – 12/2023*

Technology Used: Application Engine Studios, Database Integration, UI/UX Design, Workflow Automated, Reporting & Analytics, Security Measures.

- Make the process of requesting and overseeing loaner equipment or gadgets more efficient and automated. Streamline loaner request processes and increase tracking, efficiency and transparency.
- The User Request Portal, Inventory Management, Approval Workflow, Notification System and Reporting Dashboard are among the primary features.
- Ensuring adherence to corporate regulations regarding equipment usage, optimizing scalability to accommodate numerous departments and users, and minimizing downtime during system migrations and integrations were the challenges addressed.
- The project's results included decreased loaner request processing times by more than half, increased user satisfaction through better communication and transparency, and enhanced inventory accuracy and asset use.

EDUCATION:

B Tech – CSE | SRMIST, KTR, CHENNAI [CGPA: 9.12/10] | *September 2020 – June 2024*

- Relevant Coursework: Data Structures and Algorithms, Data Mining, Database and Management Systems, Artificial Intelligence, Object Oriented Design and Programming, Application Development, Operating Systems, Competitive Professional Skills and Advanced Calculus.