SACHIN VAGHARI

LinkedIn | 932-847-5939 | sachinkumar95121@gmail.com | Leetcode | GitHub

Skills

- Python | Data Visualization | Supervised/ Unsupervised Learning | ANN | CNN | EDA | Feature Engineering | Data Mining | Transffer Learning | Feature selection/extraction | NLP | Scikit-learn | Tensorflow | Keras | Numpy | Pandas | Matplotlib | spacy | NLTK | FastText
- Probability | Statistics | Matrices | Cloud Computing With AWS | C | C++ | Java | HTML | CSS | Javascript | Reactjs(Basics) | Django | OOP
- MYSQL | MONGODB | Hadoop(basics) | Jupyter Notebook | Tableau | JIRA | Agile Methodologie.

Experience

SRE, Intern — CrestData — *Ahmedabad, Guj, INDIA* — **01/2024 - Current**

- Led **AWS** infrastructure management, ensuring high availability and scalability.
- Streamlined deployments with **Terraform** and **Jenkins**, enhancing efficiency.
- Utilized **Site24x7** for monitoring and **PagerDuty** for incident response, minimizing downtime.
- Managed **CI/CD pipelines** with **GitLab** and optimized **Windows server management** using **PowerShell scripting.**

Machine Learning, Intern — Sparks To Ideas — *Ahmedabad, Guj, INDIA* — **\06/2023 - 07/2023**

- Gained extensive hands-on experience in **Python**, **OpenCV**, **TensorFlow**, **CNN**, **scikit-learn**, and **image dataset cleaning**, building a solid foundation in machine learning and **computer vision**.
- Applied theoretical knowledge to practical ML projects, delivering impactful solutions.
- Actively contributed to team efforts, enhancing project outcomes.
- Played a key role in various ML projects, demonstrating strong technical skills and a proactive approach.

Education

B.Tech In CSE — Nirma University — *Ahmedabad, INDIA* — **08/2021 - 06/2024**

Diploma In CE — SK Patel University — *Visnagar, INDIA* — **08/2018 - 06/2021**

Projects

TOP FIVE WOMEN FACE RECOGNIZATION USING SVM – Link

- Collected over **1000 images** of 5 female cricketers, using **OpenCV** and **Haar Cascade** for precise **face and eye detection**, and applied **Wavelet Transform** for **feature extraction.**
- Built an **SVC model** achieving **84% accuracy** in predicting features like eye size, moustache presence, and lip size.
- Developed a **Python Flask server** with a user-friendly UI using **HTML**, **CSS**, and **JavaScript**, enabling seamless image transfer via **Base64 strings** for a smooth user experience.

BIRD IMAGE CLASSIFICATION USING CNN – Link

- Developed a bird image classification **CNN** model with 15 species, utilizing a custom dataset of 4447 images collected from various online sources.
- Achieved **89.50%** training, **92.53%** validation, and **89.58%** testing accuracy. Implemented **data augmentation** and custom CNN architecture for improved performance.
- Created a user-friendly UI using **FASTAPI** and **Node.js** for drag-and-drop image classification.

THREE TIER APP DEPLOYMENT USING INFRASTRUCTURE AS A CODE

- Automated deployment pipeline for "**Pizza Fleet App**" using **AWS**, **Terraform**, and **Jenkins**. Implemented a **three-tier architecture** with **frontend**, **backend**, and **Database tier**.
- Utilized AWS services including **EC2**, **Autoscaling Groups (ASG)**, **VPC**, **NAT**, **internet gateway**, **routing table**, **security groups**, **application load balancer**, and **subnets** to create a scalable and highly available infrastructure.
- Integrated **CI/CD** practices and **infrastructure as code (IaC)** principles to streamline the **deployment** process, enhancing efficiency and reliability of application updates and releases.

Others

- Solved **750 plus DSA Problems** on various platform like **Leetcode**, **codeforces** and **GFG**.
- solved a problem of cactus communication for **AI content detection** in **Mined Hackathon** which is organized by Nirma University and also got a certification of that. – Certificate
- Selected For **Amazon ML Summer School 2023** – Certificate
- Submitted paper "**SVM and Wavelet Transformation-Based Face Recognition of Women Cricketers**" to **ARAB ICT CONFERENCE 2024 in the Kingdom of Bahrain**. Accepted for presentation on February 27-28, 2024.