Komal Rote

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EDUCATION

Usha Mittal Institute Of Technology, SNDT Women's University, Mumbai   2021 – 2024
Bachelor of Technology in Data Science (B.Tech)   **CGPA: 9.5**

Government Polytechnic, Thane   2018-2021
Diploma in Computer Engineering   *84.48%*

Saraswati Vidyalaya, Vasind   2013-2018
SSC   **87.00%**

EXPERIENCE

Prisma AI | Machine Learning Developer   **July 2024 - Present**

Designed, trained, and optimized deep learning models (YOLO, Faster R-CNN, CRNN, TrOCR, ResNet, ViT) for computer vision and OCR tasks, leveraging frameworks such as PyTorch, TensorFlow, ONNX, and Hugging Face Transformers.

Built and deployed machine learning solutions using Flask-RESTful APIs and Docker for scalable production environments. Conducted model benchmarking, optimization, and conversion (ONNX export) for cross-platform deployment.

Implemented OCR pipelines using PaddleOCR, Tesseract, EasyOCR, and custom CNN-based models for text extraction and recognition from images and documents.

Applied classical machine learning and deep learning techniques to real-world problems, ensuring high model accuracy and performance. Utilized OpenCV, NumPy, Pandas, and Scikit-learn for data preprocessing, feature engineering, and model evaluation. Developed visualization and performance monitoring tools using Matplotlib and Pillow to analyze results and improve workflows.

Acquist | Database Analyst Intern   **Jan – April 2024**

Analyzed data with the ability to identify all discrepancies with the authority to make the necessary changes. Gathered pertinent information to organize logically and functionally.
Collected document user requirements then design and developed a database architecture for information systems projects.

Created database, filter Data by reviewing reports and performance indicators. Give attention to detail ensuring accuracy in data analysis and recognizing anomalies or errors in data.

Corporate Infocom Pvt. Ltd | Web Development Intern   **Aug 2020 - Sep 2021**

Designed, developed, and maintained responsive websites using WordPress themes, plugins, and customizations. Assisted in building dynamic pages, e-commerce features, and CMS integrations to meet client requirements.

Provided technical support and guidance to clients on WordPress functionality, plugins, and website optimization. Worked with content and marketing teams to ensure websites were aligned with SEO best practices and supported social media strategies.

SKILLS

- **Programming Languages**: Python,C++.
- **Machine Learning Frameworks**: PyTorch, Onnx ,Hugging Face Transformers, Tensorflow.
- **Deep Learning Models**: YOLO, Faster R-CNN, TrOCR, CRNN, PaddleOCR, Tesseract , EasyOCR,CNN,VIT, ResNet
- **Deployment & Development**: Flask-RESTFul , Docker
- **Libraries**: OpenCV, NumPy, Pandas, Scikit, Matplotlib, Pillow

PROJECTS

Plant Disease Detection | Python, TensorFlow, CNN   Source Code

- Spearheaded the development of a sophisticated web and android application dedicated to plant disease detection,employing advanced technologies in the field of **computer vision and deep learning**.
- This innovative application consists of **Convolutional Neural Networks (CNN)** to accurately diagnose plant diseases, thereby offering invaluable support to the agricultural industry.

Twitter Sentiment Analysis | Python, HTML, Machine learning   Source Code

- Designed and implemented a web application for Twitter Sentiment Analysis**, integrating Python and employing machine learning algorithms** such as **Naive Bayes and lexicon-based approaches**.
- Contributed to both back-end functionality and front-end development using HTML and CSS, show casing comprehensive skill set in Python, machine learning, and **web development.**

EDA (Exploratory Data Analysis) | Python

Exploratory Data analysis On Kaggle Shark Tank dataset using python, created various types data visualization using python libraries, such as **Matplotlib, Seaborn, Pandas**.
 This visualization are helpful compare multiple sets and highlight their key aspects.

Sales Dashboard | Tableau   View Dashboard

Developed a dynamic Sales Dashboard using Tableau, **showcasing key metrics** including yearly profit,quantity, and sales.
Implemented **visualizations** that included a comparative analysis with the previous year's data, enhancing data-driven decision-making for sales strategies.