**VIVEK CHOUDHARI**

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Innovative Data Scientist with 4+ years of experience in developing and deploying Machine Learning solutions across diverse domains. Skilled in leading high-performing teams, optimizing data-driven workflows, and implementing scalable AI models. Proven track record of improving operational efficiency by 70% and reducing data processing time by 80% through advanced analytics and automation. Passionate about leveraging AI for predictive modeling, object detection, & decision-making to drive business impact.

**PROFESSIONAL EXPERIENCE**

Medimaze Solutions Private Limited, Pune, MH  
**Data Scientist** |May 2023 – Present | 1 Year & 11 Months

* Led AI-driven solutions to improve diagnostic accuracy and operational efficiency which will in turn reduce the diagnosis time by around 80%.
* Worked with cross-functional teams to integrate AI into existing medical workflows. Implemented cost-effective, scalable solutions, saving time and resources.
* Managed AI project lifecycles, ensuring alignment with strategic goals and compliance.
* Identified and resolved workflow challenges, driving process automation improvements.
* Maintained high standards of quality and compliance in AI models.

**Projects**:

AI-ML Deep Learning Models in Chest X-Ray

* Developed deep learning models for chest X-ray pathology detection, including Cardiomegaly, Pleural Effusion, Pneumothorax, Tuberculosis, and more, with validation accuracies above 93%.
* Designed custom algorithms for clinical measurements like Cardiac Size and Costophrenic Angle to support diagnosis.
* Curated large datasets and implemented data pre-processing techniques for optimizing model performance and accuracy.

YOLO Pathology Detection AI in Chest X-Ray

* Created and deployed YOLO-based models for detecting chest abnormalities such as nodules and rib fractures with validation accuracies of more than 97%, significantly improving detection rates and workflow efficiency.
* Led the integration of YOLO models into the clinical diagnostic pipeline, ensuring real-time detection and precise abnormality identification.

Simplified Report Generative AI (Mobile Healthcare App)

* Developed an AI chat bot to simplify medical reports for patients, explaining medical terms and findings. Initially integrated with ChatGPT API, now using OLLAMA Gemma for enhanced functionality.

Generative AI for Machine Protocol (CT/MRI)

* Built an AI system that guides machine technicians on correct protocols for CT & MRI scans, ensuring accurate scan and reducing human error.

Gender-Specific Reporting AI

* Introduced an Ollama AI to flag and prevent gender-specific reporting errors, ensuring no male-specific terms appear in female reports.

Generative AI for Report Labels/Tags

* Automated the tagging of patient studies (Normal/Abnormal) using AI to streamline workflow and data organization.

Cognizant Technology Solutions, Pune, MH  
**Analyst** | Feb 2021 – Apr 2023 | 2 Years & 2 Months

* Led analytical initiatives for British Gas, UK, identifying churn-driving factors and developing ML models to predict customer attrition, resulting in actionable business insights.
* Conducted text mining on customer feedback to uncover region-wise service issues, integrating findings into targeted retention strategies.
* Collaborated cross-functionally to deploy data-driven solutions, optimizing customer experience and reducing churn rates.
* Built CNN models for Lung & Colon Cancer classification on 25K histopathological images using resizing, normalization, and augmentation.
* Developed a stroke risk prediction model via regression on 5K patient records using demographic and clinical features.
* Implemented Sentiment Analysis with NLP (tokenization, stemming, feature engineering) using Logistic Regression, Naive Bayes, and SVM.
* Delivered end-to-end data science solutions—from preprocessing, model development to interpretation—under tight delivery timelines.
* Earlier, trained in C, Python, SQL, JavaScript, and Agile methodologies, working on projects like "Book Tour from Redbus.com" for implementing AI Automation for web testing with accuracy of 88%, reducing testing time by 27%.
* Proactively upskilled in AI/ML via Udemy certifications, contributing to internal projects such as Mobile Price Prediction and Sentiment Analysis.

**SKILLS**

**Programming**: Python, SQL, Power BI  
**Machine Learning & Deep Learning**: Natural Language Processing (NLP), Convolutional Neural Network (CNN), Regression, Classification, YOLO Detection, Gen AI Concepts, OpenAI API Concepts, Ollama

**Packages:** Numpy, Pandas, Scikit, TensorFlow, Keras, Matplotlib, OpenCV

**OS:** Linux/Windows Commands & Deployments

**Strengths:** Project Management, Team work, Decision Making, Statistical Analysis, Great Communication, Continuous Learning

**EDUCATION & TRAININGS**

**Vishwakarma Institute of Information Technology, Pune, MH**Bachelors of Technology, Engineering (2021 Pass out) **ExcelR Academy, Pune, MH**Data Science & Data Analytics Certifications (2023)

**PUBLICATIONS & CERTIFICATIONS**

**International Research Journal of Engineering And Technology (IRJET)**Mathematical Modelling of an Automatic Bag Mask Valve Emergency Ventilator

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| GL Academy | AI for Healthcare |
| ExcelR Solutions | Data Science Certification |
| ExcelR Solutions | Data Analytics Certification |
| IBM | Machine Learning with Python |
| Udemy | Artificial Intelligence A-Z 2023 |
| Udemy | The Data Science Course 2023: Complete Data Science Boot Camp |
| Microsoft Certifications | AI-900: Azure AI Fundamentals by Microsoft Certifications |
| Udemy | Deep Learning A-Z: Hands-On ANN |
| Udemy | Machine Learning A-Z: Hands-On Python & R |
| Udemy | Feature Engineering for Machine Learning |