MediMaze

Jr. Data Scientist

Jinendra Naik

I have completed B.E. in Computer Engineering with Honors in Data Science. I have a total of 1 year and 7 months of experience as a Junior Data Scientist, specializing in Deep Learning and Generative AI models. During this time, I have worked on multiple AI-driven projects, particularly in the healthcare domain, where I have developed and optimized machine learning models for real-world applications. I am passionate about leveraging AI to solve complex problems and improve automation in various industries.

My expertise lies in Deep Learning and Generative AI models, with hands-on experience in computer vision, natural language processing (NLP). My work involves data preprocessing, model training, fine-tuning large-scale AI models, and optimizing inference for production environments. I have worked extensively with frameworks such as TensorFlow, PyTorch, and Hugging Face Transformers, enabling me to build AI models efficiently.

Domain knowledge:
I have domain knowledge in the healthcare and medical imaging sector, working on AI-driven diagnostics, automation, and medical image analysis. My work involves developing deep learning models for medical imaging, processing DICOM files, and integrating AI solutions with PACS systems. I also have experience in healthcare reporting, radiology workflows, and medical data privacy standards, ensuring compliance with regulatory guidelines. Additionally, I have collaborated with medical professionals to validate AI-driven insights, improving the accuracy and reliability of AI-assisted diagnostics.

Skill set:

Programming	Python, SQL
Machine Learning & Deep Learning	Natural Language Processing (NLP), Convolutional Neural Network (CNN), YOLO Detection, Regression, Classification, Generative AI
Packages & Tools	NumPy, Pandas, Scikit-learn, TensorFlow, Keras, OpenCV,
Competencies	Team Collaboration, Strategic Decision Making, Client Interactions, Statistical Analysis, Communication, Project Management, Continuous Learning

Project 1:

Organisation	Medimaze Solutions Pvt. Ltd.
Project Name	AI-Powered Chest X-ray
Client Name	In-House Project
Duration (From – To)	July 2022 to Present
Description	Developing an AI-driven solution for automated chest X-ray analysis, detecting multiple pathologies such as GGO, Hilar prominence, and Koch's disease. The system integrates with PACS and HL7 to streamline radiology workflows and assist radiologists with AI-powered insights.
Business Domain	Healthcare, Medical Imaging
Project Type	AI Development, Deep Learning Model Deployment
Technologies	Python, TensorFlow, PyTorch, FastAPI, OpenCV
Role	Junior Data Scientist Developed and fine-tuned deep learning models for pathology detection in chest X-rays. Designed a DICOM processing pipeline to extract, preprocess, and analyze images. Conducted extensive model validation and performance tuning to enhance accuracy.
Team Size	3