

Rohan Jadhav

+919763822897 | rohanpj@rediffmail.com | Goa, India | www.linkedin.com/in/rohan1998

Machine Learning | Data Science | Artificial Intelligence | Data Engineering | Computer Vision | NLP

Objective

- To keep improving and upgrading myself in the field of Artificial Intelligence and Software Development.
- To contribute my expertise in the welfare and growth of the company.

Experience

Sonata Software Limited, Bengaluru

Digital Engineer (AI Engineer)

June 2024 – November 2024

- Worked on project related to LLM, NLP, RAG Chatbot development using AWS and Azure.
- Worked on project whose product involved Harmoni.AI Python.
- Worked on Microsoft Fabric and Data Analytics.
- Worked on Solution & Data Architect for Gen AI Chatbot for IntellQA.
- Worked on Chatbot development with Microsoft Copilot, NowAssist, Einstein AI and Joules AI for integration.

Defence Institute of Advanced Technology, Pune

AI Research Assistant

August 2022 – May 2024

- Worked in research field related to Machine Learning, NLP, Computer Vision, and Deep Learning.
- Assisted in AI project related to ADA (DRDO), with object tracking and detection.
- Independently worked in research project and have publication with best paper award in International Conference.

Persistent Systems Limited, Goa

Senior Software Engineer

July 2022 – October 2022

- Identified as Top Talent 2022.
- Led tasks and deliverables.
- Mentored and assessed individuals for the project.

Software Engineer

October 2020 – June 2022

- Worked as a Platform Data Backend Engineer in the domain of AI/ML & Cybersecurity.
- Worked on Anomaly Detection model using ML.
- Worked in the domain of ML Pipeline engineering, cloud (AWS), IAM (SSO and MFA) and data engineering tasks involving Elasticsearch and databases.
- Implemented Linux/CLI tools and system management with Shell Scripting, Python and Django.
- Implemented & delivered tasks independently within required time and was appreciated by client.

Academics

Degree	Institute	Tenure	Percentage/CGPA
Master of Technology (MTech) in Artificial Intelligence	Defence Institute of Advanced Technology (DU), Pune	2022-2024	8.38
Bachelor of Engineering (BE) in Computer Engineering	Padre Conceicao College of Engineering (Goa University)	2016-2020	73.43%

Core Skills

- Machine Learning / Deep Learning Technologies:**
 - Tools: PyTorch, Tensorflow, Scikit-learn, OpenCV, Pandas, NumPy, Apache Spark, Matplotlib & Seaborn.
 - Data visualization using various tools and techniques.
 - Data Analysis, Statistical Analysis and Data Engineering with R and Python.

- Generative AI, LLM, RAG Chatbot, Amazon Q, Amazon Bedrock, Azure AI Services, NLP, Object Detection & Recognition, and MLOps Frameworks.
- **Gen AI:**
 - Models: OpenAI, LLAMA & Azure AI
 - Platforms: Amazon Bedrock, Amazon Q, Azure AI & services.
 - Other skills: Vectorization using Pinecone, data embedding and chunking, solution and data architect for Gen AI related domain, Microsoft Copilot Development, Chatbot integration with domains such as Atlassian and ServiceNow.
- **Programming Languages:**
 - Python, Java, JavaScript, C, and C++.
- **Cloud Platforms:**
 - AWS: S3, RDS, Sagemaker, Bedrock, Q, EC2, Lambda, etc.,
 - Microsoft Azure: Azure ML, Azure Synapse, Functions, RDS, Microsoft Fabric, Data Factory, etc.
 - Google Cloud Platform.
- **Operating Systems:**
 - Linux, Windows, and Mac.
- **Web and mobile-app Technology:**
 - Django, React-native, React and Angular.
- **Database Management:**
 - PostgreSQL, MySQL, Oracle, Firebase, and Elasticsearch.
- **Others:**
 - ELK Stack, Linux System Administration, Identity Access Management (OIDC & SAML 2.0), Ping Identity, Okta, Spring Boot, Arduino Programming, Docker, Git, and LaTeX.

Publications

- **“Deep Neural Network based Yoga Posture Classification using Human Pose Estimation”** paper got accepted and awarded as **“Best Paper”** in 4th International Conference on Emerging Trends and Technologies on Intelligent Systems (**ETTIS 2024**) Springer by CDAC – Noida, Northeastern University College of Engineering and Haute-Alsace, evaluated by The University of Birmingham, UK.

Projects

- **Yoga Posture Classification and Recommendation System**
 - Yoga monitoring application involving real time analysis of human body invariant of distance and space, to accurately classify asanas with customized network architecture using cosine features. Evaluation of the asana is based on cosine angle deviations with horizontal axis. Based on this evaluation, basic recommendations are generated.
- **StarBot – NLP Chatbot**
 - NLP Chatbot for query analysing of the user and responding intelligently with the help of custom GPT-3 based trained model. Model integrated with Django based application with GUI for ease of user interaction and PostgreSQL database integrated with it.
- **Portable Agricultural Analytical Tool**
 - YOLOv3 based Object Detection and predictive model integrated with React-Native based mobile application, allowing real time analysis of chili leaves. The tool identifies if leaf is healthy or infected by any specific disease. Real time Firebase is used as data storage and gives the user an option to store their data.
- **Hospital Management and Self-Analysis App**
 - React-Native based mobile application that lets the user book an appointment with the closest doctor/hospital and checks the availability of the doctor. The application was integrated with Heart Self-Analysis ML model, based on user’s decision to book an appointment based on their report.
- **Smart Plant Monitoring and Watering Device**
 - IoT-based device to monitor plant growth, check the water level, and alert the user by sending SMS to water the plant. It allows the user to water the plants remotely using the mobile app using solenoid valve. It also monitors the sunlight intensity and hindrance of birds, if any.

Certifications

- Build Basic Generative Adversarial Networks (GANs) - Coursera - DeepLearning.AI **June 2023**
- AWS Cloud Practitioner – Amazon Web Services **July 2021**

- Machine Learning – NPTEL - IIT Kharagpur
- Modern Application Development – NPTEL - IIT Madras

October 2018

March 2018

Awards

- Awarded Best Paper (AI/ML Track) in International Conference on Emerging Trends and Technologies on Intelligent Systems (ETTIS 2024) organized by CDAC, Noida.
- Awarded as Top Talent 2022 by Persistent Systems Limited.
- 1st Place in Hackathon at Techyon 2019 organized by PCCE.
- 3rd Place in Hackathon at Saavyas 2020 organized by National Institute of Technology Goa.
- 1st Place in Code Crunch at Techyon 2019 organized by PCCE.
- 1st Place in MySQL Query Database Management at Anantara 2019 organized by VVM's Shree Damodar College.

Languages

- English, Hindi, Marathi, and Konkani.

Extracurricular

- Chess, Badminton, and Food Exploration.

I hereby declare that all the information given by me is true to the best of my knowledge.