

# RITESH PATIL

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## PROFESSIONAL EXPERIENCE:

### Web Developer (Intern)

Jnana Prabodhini

Jan 2025 – Present

- Contributed to developing the offline Virtual Kiosk project using AngularJS, focusing on understanding the framework's core concepts, and built the online version using WordPress for content management.
- Applied core AngularJS concepts to build responsive UI, improving kiosk usability and engagement.

## EDUCATION:

### P.G Diploma in (AI & ML)

MITWPU,pune,india

July 2024 – May 2025

- Coursework includes Machine Learning, AI, Data Mining, Neural Networks, NLP, Computer Vision, Statistical Analysis, Deep Learning; applied concepts through hands-on projects.

### BSc Computer Science

Abasaheb Garware college,Pune,India

Aug 2020 – june 2023

- Computer Networks, Operating Systems, Database Systems, Algorithms, Programming Languages, Computer Architecture, and AWS Cloud.

### HSC

Abasaheb Garware college,Pune,India

Aug 2018 – may 2020

## CERTIFICATION:

GenAI & LLM Workshop | LMStudio, AnythingLLM, RAG, HuggingFace, Prompting Strategies

Complete Data Science Training | Math, Statistics, Python, Machine, Deep Learning and NLP

AWS Academy cloud foundation | Skilled in EC2, S3, Lambda, API Gateway, RDS, VPC, IAM

## LANGUAGES AND TECHNOLOGIES:

Technical skill :	Python , C , R, AWS, Linux, Networking, Docker, Jenkins.
Libraries :	Jupyter Notebook, Pandas, Numpy, Scikit-learn, Keras, openCV, Matplotlib, Seaborn
AI/ML Skill:	Model training,Regression, Classification, Deep Learning, LLM, RAG, image processing
Data Analysis:	Power BI, Tableau, SQL, Excel, Data Cleaning, Dashboard Design

## PROJECTS:

### Heart Disease Prediction Using Retina Images

- Implemented YOLO for precise detection and classification of retina features linked to heart disease, improving detection accuracy by 20%..
- Utilized Roboflow for image annotation and model training, reducing preprocessing time by 50%.
- Designed and trained deep learning models using TensorFlow and OpenCV, increasing disease marker identification accuracy by 25%.

### Employment Assistance Tool using LLMs, RAG, and Neo4j

- Led the development of an AI-powered Employment Assistance Tool, streamlining job search processes and increasing job matching accuracy by 30%
- Implemented Retrieval Augmented Generation (RAG) to improve data retrieval speed by 40%, enhancing job recommendation relevance
- Integrated real-time APIs and Neo4j knowledge graph, providing personalized job recommendations, improving user engagement by 25%.

### Movie Recommender System

- Built a content-based movie recommendation app using Streamlit and TMDb API, dynamically fetching over 1,000 movie posters.
- Recommended top 5 movies based on user preferences, achieving a 95% user satisfaction rate.
- Leveraged machine learning models serialized with Pickle, optimizing recommendation accuracy by 15%

### E-commerce Product Insights Dashboard using SQL and Power BI

- Analyzed sales and inventory data for 5,000+ products using SQL to identify top-selling and underperforming SKUs.
- Developed a Power BI dashboard to visualize product trends, enabling strategic decisions on promotions and stock management
- Reduced manual reporting time by 30% through optimized SQL queries and automated data refresh in Power BI.
- Technologies:** SQL, Power BI, DAX, Excel

### AWS Cloud Migration - Lift and Shift Approach

- Orchestrated the migration of an existing application workload to AWS cloud with minimal architecture changes, reducing operational costs by 15%.
- Directed the migration of multi-tier web apps to AWS cloud, enhancing application performance by 20%.
- Technologies:** EC2, S3, Route53, ELB, Auto Scaling