

ANISH S. PATIL

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PROFESSIONAL SUMMARY

Associate Test Engineer pivoting to Data Science and AI/ML role, experienced in developing Retrieval-Augmented Generation (RAG) and Computer Vision projects. Proficient in Python, Machine Learning, and Data Preprocessing, with a focus on deploying practical, real-world AI solutions.

TECHNICAL SKILLS

Programming: Python

Libraries: NumPy, Pandas, Matplotlib, Scikit-learn

Machine Learning: Supervised & Unsupervised Learning (Basics)

Data Skills: Data Cleaning & Preprocessing, Exploratory Data Analysis (EDA)

Tools: Jupyter Notebook, VS Code

Version Control: Git, GitHub

Databases: Oracle SQL

PROJECTS

RAG-Based AI Video Assistant | *Python, NLP, RAG, Whisper, LLMs, FFmpeg*

- Developed an AI-powered assistant using Retrieval-Augmented Generation (RAG) to process and analyze video content.
- Implemented speech-to-text transcription using Whisper to convert video audio into text.
- Implemented Hindi-to-English translation and timestamp-based video retrieval.
- Enabled context-aware search using LLMs for accurate video segment extraction.
- Optimized video processing workflow using FFmpeg for efficient audio extraction and preprocessing.

Object Detection using Drone | *Python, TensorFlow, OpenCV DNN, SSD MobileNet V3, COCO Dataset*

- Developed a real-time object detection system using OpenCV DNN and SSD MobileNet V3, achieving accurate detection on live video streams.
- Utilized pretrained COCO dataset models to detect 80+ object classes including person, vehicles, and daily objects.
- Integrated computer vision with hardware (GPIO-based servo motor) to simulate object tracking for drone applications.
- Processed live video feed using OpenCV Video Capture, enabling real-time inference and visualization.

Face Detection System | *Data Collection, Data Labelling, Feature Processing, Model Training, YOLO*

- Built a real-time object detection system using YOLO on Raspberry Pi, capable of detecting multiple objects from live camera feed with optimized performance for edge devices.
- Integrated live video stream processing using Pi Camera.
- Achieved real-time detection under hardware constraints using YOLO model

Housing Price Analysis & Preprocessing | *Python, NumPy, pandas, matplotlib, Seaborn*

- Performed Exploratory Data Analysis (EDA) to understand data distributions, correlations, and key trends in housing data.
- Cleaned and pre-processed data using Pandas, including handling missing values and analyzing categorical features.
- Visualized data insights using Matplotlib (histograms, distributions) to identify patterns and outliers.
- Implemented a custom train-test split function using NumPy to ensure reproducible data preparation for machine learning models.

PROFESSIONAL EXPERIENCE

Indium Software, Bangalore :

17/03/2025 - Present

- Working as a full-time Associate Test Engineer in the Gaming division (iXie), supporting game testing and client deliverables. Captured and validated gameplay footage for upcoming game events based on client requirements and quality standards.
- Managed client requests and defect tracking using Jira, ensuring timely updates and accurate documentation. Collaborated with cross-functional QA teams, and project managers to support smooth project execution and delivery.

EDUCATION

Jain College of Engineering, Belagavi.

2020-2024

Bachelor of Electronics and Communications Engineering

Raja Lakhamagouda Science Institute.

2018-2020

Pre-University (12th Grade)

St. Paul's High School, Belagavi

2007-2018

High School (10th Grade)

COURSES & CERTIFICATIONS

Data Science Course by CodeWithHerry

Python FullStack Development by PySpiders

EXTRA-CURRICULAR ACTIVITIES

- Joined the elite group of Black Belts in Karate in 2017.
 1. State Championship: Silver Medallist in Departmental Sports Karate.
 2. National Championship: 2nd in National Karate Championships.
- Double victory! Won 1st place in both the Robo Race competition organized by JCER Belagavi and the Bot Building competition organized by Basaveshwar Engineering College, Bagalkot.
- In 2022-2023, I served as Chair of IEEE Women in Engineering (WIE). Also held the position of IEEE Media Head in 2021-2022.
- Volunteered at Google Developer Groups, Belagavi (GDG) in 2022 and Karnataka State Council For Science And Technology (KSCST), organized by VTU Belagavi.

PERSONAL DETAIL'S

Date of Birth : 15/04/2002

Languages : Kannada, English, Hindi, Marathi