

SAHIL PARUPUDI

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EDUCATION

Dr. D.Y. Patil Institute of Technology, Pimpri, Pune B.E. Computer Engineering	Sep 2021 - Jun 2025
Modern College of Arts, Science and Commerce, Shivajinagar, Pune HSC : 96.33%	Aug 2019 - Jun 2021
Bharatiya Vidya Bhavan SNVM, Pune SSC : 87.60%	Jun 2008 - Jun 2019

EXPERIENCE

XDE Studios AI/ML Intern	Oct 2024 - Present Pune, India
<ul style="list-style-type: none">Fine-tuned a YOLOv11 model to detect shipping container (95% recall) and seal numbers (75% recall); integrated PaddleOCR for accurate OCR on curved and noisy surfaces.Built a scalp image analysis tool combining EfficientNet for hair density classification (92% accuracy) and YOLOv8 for dandruff detection; enabled personalized hair care recommendations.Developed a face recognition pipeline for event photo tagging using InsightFace for embedding extraction and HDBSCAN for unsupervised clustering (0.70 silhouette score) of individuals.	
Rubiscape Project Intern - Data Science	Jun 2024 - Sep 2024 Pune, India
<ul style="list-style-type: none">Performed customer segmentation based on rfm, type of products and geography and trained a K-means model obtaining a silhouette score of 0.65.Developed a model to predict Employee Attrition using Random Forest to attain an accuracy score of 0.89.Created workflows for the aforementioned models on Rubistudio. ↗	

PROJECTS

Restaurant Menu Dish recommendation system ↗	Aug 2024
React, Weaviate, FastAPI	
<ul style="list-style-type: none">Designed a hybrid recommendation engine using PyNNDescent-based collaborative filtering and content-based retrieval via Weaviate's vector search.Integrated Gemini API to re-rank dish recommendations based on user preferences, filters (e.g., allergy inputs), and context-aware prompts.	
IMagic ↗	Jul 2024
Streamlit, Scikitlearn, Stability AI API,	
<ul style="list-style-type: none">Developed an image processing application using Streamlit for interactive user interfaceImplemented K-means clustering algorithm-based image compression for efficient file size reduction.Integrated Gemini Stability and Stable Diffusion APIs for advanced image processing capabilities including text extraction and generation.	
FlightFinder ↗	Jun 2023
Smtplib, Twilio API	
<ul style="list-style-type: none">Utilized the Tequila API to retrieve detailed flight information, facilitating real-time updatesImplemented Sheety API to cross-reference flight prices from Google Sheets, automating comparisons against predefined thresholds Implemented SMTP via smtplib for email notifications and Twilio for instant messaging alerts when prices fell below the set threshold	

TECHNICAL SKILLS

Programming languages: Python, Java, C++	Web Technologies: HTML, CSS, Flask, JavaScript, FastAPI
Libraries: Pandas, Streamlit, Scikit-Learn, Selenium, Ultralytics	Miscellaneous: MySQL, MongoDB, Git, Google Apps Script

CERTIFICATIONS

DeepLearning.AI	Machine Learning Specialization	2024
Rubiscape	Advanced Data Visualisation	2024
Udemy	100 Days of Code: The Complete Python Pro Bootcamp for 2023	2023

ACHIEVEMENTS

Hacktoberfest 10	Completed Hacktoberfest by submitting 4 accepted Pull Requests	2023
CodeCraft	Achieved 4th Place in a 4-Round Coding Competition organized by Computer Society of India, DIT	2023
Badminton	3rd Place in Savitribai Phule Pune University's Inter-College Badminton tournament	2023
30 Days of Google Cloud	Completed the challenge on Google's cloud skills boost	2022

POSITIONS OF RESPONSIBILITY

Sr. Data Manager, Association of Computer Engineering Students, DIT: Co-led a team of four to manage the registration & attendance of 1500+ participants using Apps Script. Raise	2023 - 2024
Jr. Technical Head, Association of Computer Engineering Students, DIT: Created and emailed certificates for 900+ participants of the club's flagship event using Canva and Apps Script.	2022 - 2023