NISHIL PATHAK

AI/ML ENTHUSIAST

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I am a passionate AI/ML learner dedicated to advancing my career and achieving my goals. I am actively immersing myself in the dynamic field of AI/ML to continuously enhance my proficiency. I am highly skilled in time management and proficient in communication.

AREA OF EXPERTISE

C	Intermediate Python (Advancing the Skills)	AI
Basics of HTML		Basics of ML
Cloud	GCP	AWS Cloud
MS Excel	MS Powerpoint	Concepts of Deep Learning, Reinforcement Learning, Neural Networks, NLP
PowerBI	Tableau	

PROJECTS

Weather and Soil Forecasting App
- Researched the need for a smart app to predict weather and soil conditions.
- Used APIs to build a mobile-friendly app that gives accurate forecasts.
- Tested the app carefully to ensure it works well and gives reliable results.

UCI Chess Engine
- Researched how UCI (Universal Chess Interface) works and why it's important for chess engines.
- Learned key concepts and applied them while building the chess engine.
- Enhanced the engine with proper code references and tested it thoroughly to ensure it worked correctly.

Coronavirus Tweet Sentiment Analysis
- Analyzed public tweets about COVID-19 to understand their emotions (positive, negative, neutral).
- Used BERT, a powerful language model, to classify tweet sentiments.
- Explored and visualized data trends using charts with Seaborn and Matplotlib.
- Cleaned tweets by removing punctuation, links, and emojis, and prepared them for BERT model input.

Delivery Time Prediction App using Streamlit
- Created a user-friendly web app to predict delivery time based on order details.
- Took inputs like product type, location, shipping method, weather, and distance.
- Used simple rules to estimate delivery time with real-life conditions.
- Made sure urgent deliveries are within 2 days and set a minimum of 1 day.
- Deployed the app on Streamlit Cloud and connected it with GitHub.
- Tools used: Python, Streamlit, NumPy, GitHub

WORK EXPERIENCE

AI for Manufacturing Training + Internship (16 Weeks, 64 Hours)   **Feb 2025 - Present**
Intel

- Gained foundational and practical knowledge of AI applications in manufacturing.
- Learned AI programming basics, project cycle & data handling.
- Worked on modeling, evaluation, and deployment of AI solutions.
- Expanded understanding of Computer Vision, Predictive Maintenance, and Robotic Process Automation.

  Still left
- Will explore Edge AI, AI Ethics, and Responsible AI project development.
- Will build and present industry-relevant AI projects during Summer Internship Program (SIP).
- Will enhance skills in profile building, presentation, and teamwork in applied AI.

AICTE - Internship on AI: Transformative Learning with - A joint   **Jan 2025 - Feb 2025**
CSR initiative of Microsoft & SAP
TechSaksham

- Developed an ML model to predict disease outbreaks using historical and real-time data.
- Collected and preprocessed data from public health sources for training.
- Evaluated multiple models and selected the best-performing one.
- Built a Streamlit-based web app for health authorities.
- Used accuracy, precision, recall, and F1-score for evaluation.
- Explored expansion to chronic disease prediction (heart disease, Parkinson's, diabetes).
- Documented progress and hosted the project on GitHub.

Generative AI - AICTE approved Internship   **Sep 2024 - Nov 2024**
Flaunch Innovation Pvt. Ltd.

- Developed an AI-powered mental health chatbot using the Meta-Llama-3-8B-Instruct model to provide empathetic and personalized responses.
- Participated in weekly mentoring sessions and live-instructor-led sessions, enhancing skills in AI, chatbot development, and model integration.
- Utilized natural language processing (NLP) techniques like sentence embeddings and cosine similarity to match user inputs with appropriate mental health dialogue responses.
- Integrated LLaMA model for natural conversational responses, managing API calls and token utilization for efficient performance.
- Documented and reported project progress, milestones, and outcomes to ensure successful project execution.

AI/Cloud-AICTE approved Internship   **Jul 2024 - Aug 2024**
Edunet Foundation

- Completed a 4-week internship with Edunet Foundation, focusing on AI and Cloud technologies through the IBM Skills Build platform.
- Developed a sentiment analysis model for coronavirus tweets using BERT and NLP techniques, gaining practical experience in AI.
- Strengthened technical skills in machine learning, Python, and cloud services, while solving real-world problems.

EDUCATION

B.E./B.Tech | Computer Engineering   **2022 - Present**
Gujarat Technological University
- 8.78 CGPA

HSC (PCM)   **2021 - 2022**
Rosary High School
- 56%

SSC   **2019 - 2020**
Rosary High School
- 84%

ADDITIONAL INFORMATION

- **Languages Known:** English, Hindi, Gujarati
- **Hobbies:** Cricket, Reading, Listening Music, Friendly Talks, Walking, Cycling
- Participated in IEEE Mentor-Mentee Program and successfully completed it

- **Certifications can be viewed here:**
  https://drive.google.com/drive/folders/12LSb4tg353cnsscoVdaYWWHUI9PLRKIR