

Yatharth Dodal

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EDUCATION

Sardar Patel Institute of Technology (SPIT)

,B.Tech in Electronics and Telecommunication engineering

Major in electronics and Telecommunication engineering

Minor in Artificial intelligence And Machine Learning

Anderi east

2023-2027

Skill And Certification

Languages:C,C++,Java,Python,JavaScript,HTML,CSS,React,Flutter

Technical Skills; AI/ML,Backend Developer,Cloud Technologies,Data Science

Certification: Certified AIML Expert, Algorithmic Trading using Python

PROJECTS

Generative AI-Powered Trading Strategy Generator

Jan 2025

- Developed a **Generative AI-Powered Trading Strategy Generator** using **Reinforcement Learning (RL)** and **LLMs** like **OpenAI Codex** and **Llama**.
- Created AI models that generate human-readable trading strategies based on **historical market data** and technical indicators (e.g., RSI, MACD).
- Fine-tuned models with **past hedge fund strategies** to improve accuracy.
- Implemented **backtesting** with **PineScript** and **QuantConnect** to validate strategies.
- Gained expertise in **AI for finance**, **RL algorithms**, **data preprocessing**, and **backtesting tools**.
- Developed skills in **model evaluation**, **financial market analysis**, and **algorithm optimization**.

Generative AI-Powered Password Strength Analyzer

- **Password Strength Evaluation:** Analyzes password vulnerability using entropy, hashing techniques (bcrypt, SHA-256), and patterns from leaked datasets.
- **Time-to-Crack Simulation:** Estimates password cracking time using tools like Hashcat.
- **Suggestions & Reasoning:** Generative AI suggests stronger passwords and provides reasoning for weaknesses (e.g., dictionary words).
- **Public Leak Cross-referencing:** Compares passwords with datasets like RockYou to detect weak patterns.
- **User Interface:** Web-based interface (Flask/FastAPI) for real-time password analysis and feedback.
- **Tech Stack:** Python, Generative AI, ML models, bcrypt/SHA-256, Hashcat, HTML/CSS.
- **Benefits:** Enhances security, educates users, and aids organizations in enforcing strong password policies.

Generative AI for Code Synthesis and Debugging

- **Code Generation:** Uses OpenAI Codex or GPT-3 to generate functional code based on user specifications.
- **Error Detection:** Automatically identifies errors in existing code and suggests fixes.
- **Natural Language to Code Translation:** Translates natural language instructions into executable code snippets.
- **Multi-language Support:** Supports generating code in various programming languages.
- **Enhances Productivity:** Aids developers in writing and debugging code quickly and efficiently.

ACTIVITIES

Marketing Head, Enactus SPIT (2024-25)

- Led a team to manage marketing initiatives for Enactus SPIT.
- Organized and executed events, ensuring smooth coordination and promotion.
- Secured sponsorships by approaching and negotiating deals with potential sponsors.
- Developed strategic marketing plans to enhance the organization's visibility.
- Fostered long-term relationships with sponsors to support ongoing activities.