

VEDANT PUNGLIYA

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Objective: Dedicated student pursuing a bachelor's in computer science

EDUCATION

Iowa State University

Bachelor of Science, Computer Science

- Minor: Cyber Security Engineering
- Minor: Data Science
- Minor: Economics

Expected: May 2026

GPA: 4.0

SKILLS

- Languages: Java, Python, SQL, R
- Network Pentesting
- Database Management
- Object Oriented Programming
- Generative AI

EXPERIENCE

WeekendAI

May 2024 – Present

AI Software Developer

- Utilized CrewAI and Langchain to develop proof-of-concept generative AI models, enhancing the efficiency and creativity of AI-driven projects
- Conducted extensive testing and optimization of AI algorithms to endure high performance

Pocianet LLC AsMomeMt

January 2024 –April 2024

Software Development and UI Pentesting

- Employed Flutter for mobile app development project, focusing on user interface design and functionality optimization.
- Conducted UI pentesting using Selenium and Lambda Test tools, ensuring robust security and seamless user experiences for the mobile app

Supplemental Instruction

August 2023 –Present

Macroeconomics Supplemental Instruction Leader

- Enhanced student success, facilitating SI sessions that improved grades by half a letter on average.
- Clarified complex economic concepts in an interactive environment to boost comprehension and retention.

PROJECTS

Generative AI Newsletter and Blog Generation

- Inspired by therundown.ai
- Developed an automated system for generating newsletters and blog posts using generative AI models.
- To create engaging and personalized content for a variety of topics using advanced language models.
- Implemented text generation algorithms to draft articles, summaries, and blog posts.
- Enhanced content creation efficiency by reducing manual writing time by 70%.

Tools and Libraries: crewai, Langchain, openai, streamlit

Directory RAG Search Chatbot Implementation

- Developed a chatbot utilizing Retrieval-Augmented Generation (RAG) to perform directory searches and provide relevant information to users.
- To create a conversational agent capable of retrieving and generating accurate responses based on directory data.
- Designed the chatbot architecture using a combination of retrieval and generation agentic techniques
- Enhanced user satisfaction with improved context awareness and relevant information retrieval.

Tools and Libraries: crewai-tools, embedder, chromadb

Penetration Testing and Vulnerability Assessment

- Conducted a comprehensive penetration testing project to identify and mitigate vulnerabilities in various systems.
- To enhance system security by detecting weaknesses and providing actionable solutions to fortify defenses.

- Performed systematic penetration testing on multiple network and application systems using industry-standard tools and methodologies and identified critical vulnerabilities, including SQL injection, XSS, and weak authentication mechanisms.
 - Developed detailed reports outlining each vulnerability, its potential impact, and recommended remediation strategies.
 - Enhanced the security posture of the tested systems, leading to a 75% reduction in exploitable vulnerabilities.
- Tools and Libraries: Kali Linux, Metasploit, OWASP ZAP, Social Engineering Toolkit, Nmap, Wireshark

AI Legal Documentation Assistant

- AI Based Document drafting of documents while removing legal jargon
- Portal for connecting clients with lawyers and Chat Assistant for answering Legal Queries and understanding Laws of India.
- Tools and Libraries: Django, LangChain, GPT-OpenAI, Speech Recognition, ChromaDB, SQLite3, GitHub.

ACHIEVEMENTS

- HIGHEST 2% LIBERAL ARTS AND SCIENCES SOPHOMORE SPRING 2024
- Deans List Spring 2023 – Present

LEADERSHIP

Computer Science Student Advisory Council

Council Member

August 2023 –Present

- Facilitated program improvement by offering feedback on classroom, lab, and advising experiences as a Council Member in the Computer Science Student Advisory Council
 - Assisted with maintaining the relevance of the program's educational objectives and desired student outcomes with regards to ABET
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