OM PATEL

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PROFESSIONAL SUMMARY

Dynamic and detail-oriented postgraduate student pursuing MSc in Cybersecurity and Machine Learning at the University of Aberdeen. Skilled in full-stack web development, penetration testing, AI-powered analytics, and secure system design. Adept at applying machine learning algorithms and cybersecurity techniques in real-world projects. Proven ability to lead teams, manage time effectively, and deliver high-quality results in academic and professional settings. Seeking opportunities in cybersecurity and AI engineering domains.

EDUCATION

University of Aberdeen

Master of Science in Cybersecurity and Machine Learning

2024 - 2025 | Aberdeen, UK

Key Coursework: Security in Emerging Networks, Security Analytics with AI, Ethical Hacking, Digital Forensics, Applied AI, ML, NLG, Knowledge Representation

Shree Ramkrishna Institute of Computer Education and Applied Sciences

Bachelor of Science in Information Technology

2021 - 2024 | Surat, India | CGPA: 9.41

Intellect Computers

Cyber Security Certification (Level 1, 2 & 3) - 2022-2023

TECHNICAL PROJECTS

Natural Language Generation System - Arria NLG Studio

Developed a sports narrative generation engine using structured box score data. Emphasized human-like readability and precision. Targeted readability: Flesch score > 80.

AI-Based Music Recommendation System

Built using content-based and collaborative filtering in Python. Used Librosa to extract audio features and cosine similarity for matching.

Cats vs Dogs Image Classifier

Implemented a convolutional neural network to classify pet images. Trained on a custom dataset with high validation accuracy.

Text-Based Adventure Game (Prolog)

Created an interactive logic-based game applying AI concepts and rule-based inference.

Contact Management System - .NET (C#) + Visual Studio

Full-stack web app with user/admin roles. Features: login, profile, CRUD for contacts with images, user search, and admin control panel.

OCR System (Python)

Recognizes text from images and videos. Automatically stores text based on source filename. Handles large datasets efficiently.

Similar Images Evaluator (Python)

Tool for sorting, deleting, or organizing image duplicates using similarity thresholds. Efficient on large image datasets.

RESEARCH EXPERIENCE

DeepFake Research

Explored tools for generating and detecting deepfakes (video morphing, image manipulation, call spoofing). Conducted practical experiments and analysis. Investigated ethical implications and detection techniques.

PROFESSIONAL EXPERIENCE

Web Development Lead - Self-Employed | Jul 2024 - Present | Surat, India

Managed client communication, task delegation, and end-to-end web project delivery with high client satisfaction.

.NET + Angular Developer Intern - Elite Technocrats | Dec 2023 - May 2024

Assisted in building scalable enterprise solutions with .NET Core and Angular. Participated in team scrums and API integrations.

CERTIFICATIONS

- Cybersecurity (Level 1, 2, 3) - Intellect Computers
- UNIX Shell Scripting & Security Fundamentals

CORE COMPETENCIES

Languages: Python, Java, JavaScript, C#, SQL, HTML, PHP

Frameworks: ASP.NET Core/MVC, Angular

Tools: Git, Kali Linux, Metasploit, Librosa, Scikit-learn, VS Code, Visual Studio, Wireshark

Databases: PostgreSQL, MySQL

Concepts: Ethical Hacking, Encryption, AI/ML, Shell Scripting, Security Analytics, Digital Forensics

VOLUNTEERING & LEADERSHIP

Teaching Experience (2021-2024) - Taught Cybersecurity, HTML, CSS & JavaScript to students across different levels.

National Service Scheme Volunteer (2021-2023) - Led and organized community outreach programs and social events.

LANGUAGES

English (Fluent), Hindi (Native), Gujarati (Native)

References available upon request.