Anugrah K

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TECHNICAL SKILLS

Languages: Python, C/C++, Java, SQL
Security Tools: Burp Suite, Wireshark, Nmap, Metasploitable
Frameworks & Platforms: Linux, Git, VMWare/VirtualBox, VS Code
AI & GenAI: Prompt Engineering, LLM Integration (Gemini API), AI-Assisted Development, AI Safety & Guardrails
Core Areas: Web App Security, Network Security, Penetration Testing, Research & Development
Soft Skills: Technical Documentation, Critical Thinking, Research & Analysis, Knowledge Sharing, Attention to Detail

CERTIFICATIONS & TRAINING

Google Cybersecurity Professional Certificate　　　　　　　　　In Progress, Foundations Completed
Google　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　*Coursera*

- Currently progressing through applied labs and hands-on security modules
- Completed foundational topics in network security, threat analysis, and Linux tools
- Building practical experience for industry-recognized cybersecurity skills

AI Agents Intensive Training with Google　　　　　　　　　　　　　Completed: Nov 2025
Google　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　*Online*

- Completed a 5-day online intensive led by Google ML researchers and engineers
- Built and deployed AI agents covering models, orchestration, memory, and evaluation
- Included live sessions, hands-on codelabs, and a final capstone project (Kaggle badge earned)

PROJECTS

Password Security Tool | *Python, Cryptographic Libraries, Regular Expressions*　　　　2025

- Developed a Python tool for advanced password strength analysis via a smart scoring algorithm (0-100 points)
- Implemented secure password generation with entropy calculation and simulated breach detection
- Gained hands-on experience with password entropy and secure random number generation

AI Personal Life Coach | *Python, Flask, Google Gemini API, HTML/CSS*　　　　　2025

- Engineered a full-stack AI agent using Python, Flask, and Gemini 2.0 for real-time, context-aware guidance
- Implemented advanced prompt engineering and session memory to maintain a consistent therapeutic persona
- Integrated safety guardrails to detect self-harm triggers and enforce professional medical disclaimers

PUBLICATIONS & PATENTS

Bioreceptive Concrete Panels for Indian Climates　　　　　　　　　　　In Progress
Research Manuscript　　　　　　　　　　　　　　*Target: Materials/Sustainable Built Environment*

- Validated design assumptions via literature review and lab-scale formulation planning
- Outlined mix tuning for porosity, moisture retention, and surface micro-topography
- Defined test plan for warm–humid conditions and monsoon variability (prototyping next)

A Smart Cooking System　　　　　　　　　　　　　　　　　　　　　Filed: May 2025
Patent Application　　　　　　　　　　　　　　　　　　　　　　　　　*Patent Pending*

- Completed system architecture and control logic for an IoT-assisted cooking workflow
- Specified safety, timing, and alert mechanisms with event-driven design
- Prepared prototyping plan for sensor integration and device orchestration (next phase)

EDUCATION

Lovely Professional University　　　　　　　　　　　　　　　　　Aug. 2023 – Present
B.Tech in Computer Science & Engineering (Cybersecurity)　　　　　　　　　*Punjab, India*

- Current CGPA: 7.42

Kendriya Vidyalaya Keltron Nagar　　　　　　　　　　　　　　　Kannur, Kerala
Secondary (X) – 77% | Senior Secondary (XII) – 80%　　　　　　　　　　　*2021 – 2023*