

Shivam Kumar Singh

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🐙 GitHub

📄 Professional Summary

Python and Django developer with experience building secure, database-driven web applications and AI-powered cybersecurity solutions. Skilled in backend development, authentication systems, REST API fundamentals, database design, debugging, and responsive web interfaces through academic and independent projects. Passionate about developing scalable, security-focused applications using modern web technologies.

🧠 Skills

Programming Languages

Python, Java, JavaScript, HTML5, CSS3

Frameworks & Web Technologies

Django, Django REST Framework (Learning), Tailwind CSS, Bootstrap

Backend & System Architecture

Django MVT Architecture, Authentication & Authorization, RESTful API Development (Basic), Session Management, File Handling & Storage

Database & Data Management

SQL, SQLite, DBMS Concepts, Relational Database Design & Query Optimization (Basic)

Cybersecurity & Networking

Network Fundamentals (TCP/IP, OSI Model), Access Control, Password Hashing, Data Protection Principles, Basic Encryption Concepts

Cloud & Storage

AWS S3, IAM (Basic Configuration), Secure Object Storage

AI & Machine Learning

Scikit-learn, Natural Language Processing (NLP), TF-IDF, Pandas, NumPy

Development Tools

Git, GitHub, VS Code, pip, Virtual Environments (venv), AI-Assisted Development

🏆 Core Competencies

- Secure Web Application Development (Django MVT)
- Client-Side Encryption (Web Crypto API – AES-256-GCM)
- RESTful API Development & Authentication Systems
- Cloud Storage Security (AWS S3, IAM Policies)
- Network Fundamentals (TCP/IP, OSI Model, Subnetting)
- Secure Session Management & Rate Limiting
- Database Schema Design (SQLite)
- Software Testing Fundamentals & Debugging
- API Testing using Postman (Basic)
- Test Case Analysis & Validation

📁 Projects

October 2025 – Present	ShieldDrive  Zero-Knowledge Encrypted Cloud Storage System Tech Stack: Python, Django, Web Crypto API (AES-256-GCM), AWS S3, SQLite, Tailwind CSS, JavaScript • Designed a zero-knowledge architecture where files are encrypted and decrypted entirely in the client browser before upload • Implemented client-side encryption using Web Crypto API (AES-256-GCM), ensuring encryption keys are never stored server-side • Developed Django backend for authentication, session management, secure file metadata handling, and access control
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- Integrated AWS S3 with IAM-based policies for secure encrypted object storage
- Implemented OTP-based email verification, login rate limiting, and account lockout to mitigate brute-force attacks
- Built security logging system for login attempts, lockout events, and download tracking
- Performed authentication flow validation, session testing, and security-focused debugging for secure access workflows
- Structured backend using Django MVT architecture with relational database schema design

May 2026 – Present

CyberShield AI

AI-Powered Phishing & Social Engineering Detection Platform

Tech Stack: Python, Django, Scikit-learn, Pandas, NumPy, SQLite, HTML, CSS, JavaScript

- Developed an AI-powered cybersecurity platform that detects phishing emails and spam/phishing SMS using **NLP and supervised machine learning**.
- Trained and evaluated **Scikit-learn** classification models using **publicly available Kaggle datasets**, implementing text preprocessing and **TF-IDF vectorization** for feature extraction.
- Integrated trained ML models into a **Django** web application to provide real-time predictions with confidence scores through an interactive dashboard.
- Evaluated model performance using **accuracy, precision, recall, F1-score, confusion matrix, and ROC-AUC**, achieving **98.45%** email detection accuracy and **97.03%** SMS detection accuracy on the evaluation datasets.

2023 – 2024

Additional Academic Projects

- **Unseen Hands** – NGO Management System
- **EduVerse** – Educational Management System

Professional Experience

May 2024 – June 2024	LeaderzWalk Content Writing • Created SEO-optimized articles and digital content • Conducted topic research and structured long-form web content • Collaborated with editorial team to improve content quality	Noida
June 2023 – July 2023	United University Web Development • Developed responsive web applications using Django and Bootstrap • Used SQLite for database management during development • Created user authentication and dynamic content using Django's MVT architecture	Prayagraj

Education

2024 – 2026	Master of Computer Applications with Industry Oriented Specialization in Computer Network and Cyber Security Galgotias University	Greater Noida
2021 – 2024	Bachelor of Computer Applications United University	Prayagraj
2020 – 2021	Intermediate (Class XII) SCD Inter College	Bhadohi
2017 – 2018	High School (Class X) ST. Thomas School	Bhadohi

Certifications

April 2026	Cryptography and Network Security  NPTEL
October 2025	Cyber Security and Privacy  NPTEL
May 2025	CCNA: Introduction to Networks  Cisco Networking Academy
April 2025	Udemy : AI & Django Development Certification • ChatGPT Masterclass: Navigating AI & Prompt Engineering • Python and Django Framework with HTML5 Stack