Aman Chaurasia
Software Engineer | Computer Science Student
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Summary

Motivated and detail-oriented software engineer with a strong foundation in Python, .NET, and Git. Currently pursuing a Computer Science degree, with hands-on experience in software development, machine learning, ethical hacking, and data science. Passionate about building scalable solutions, improving coding skills, and staying up to date with the latest in technology.

Education

Bachelor of Technology in Computer Science
Sam Higginbottom University of Agriculture,Technology And Sciences | 2022 – 2026

- Relevant Coursework: Data Structures, Algorithms, Web Development, Databases, Machine Learning, Cybersecurity

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Skills

- **Languages**: Python, C++, Java, C#, HTML, CSS, JavaScript
- **Frameworks/Tools**: React, .NET, Flask, Django, Tkinter, OpenCV
- **Machine Learning**: scikit-learn, TensorFlow, Keras, Pandas, Numpy
- **Version Control**: Git, GitHub
- **Other**: Ethical Hacking, Web Development, Problem Solving

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Certifications

- **Cisco Cybersecurity Certification** | 2025
- **Kaggle Python Course** | 2025
- **Simplilearn Ethical Hacking Certification** | 2025

Projects

1. **Face Detection App**
    - **Description**: Developed a real-time face detection application using OpenCV and Haar Cascade Classifiers. The app detects and highlights faces from a video feed in real-time, providing an interactive user experience.

- **Technologies Used**: Python, OpenCV, Haar Cascade Classifiers
- **GitHub Link**: https://github.com/aman-1111/Face-detection

2. **Attendify**
    - **Description**: Built an app to manage event attendance, where users can mark their attendance by scanning QR codes or entering manually. It also provides attendance reports.
    - **Technologies Used**: Python, Flask, SQLite, HTML, CSS, JavaScript
    - **GitHub Link**: https://amanchaurasia-attendify-app.netlify.app/
3. **QR Code Scanner and Generator App**
    - **Description**: Created an app that allows users to generate and scan QR codes. The app can create QR codes for text, URLs, and other data types, and also scan existing QR codes using the camera.
    - **Technologies Used**: Python, Tkinter, PyQRCode, OpenCV
    - **GitHub Link**: https://github.com/aman-1111/QR-code-using-python
4. **IPL Dataset Analysis & Prediction**
    - **Description**: Developed a machine learning model to predict IPL match outcomes using historical match data. The model analyzes team statistics, player performance, and past results.
    - **Technologies Used**: Python, Pandas, scikit-learn
    - **GitHub Link**: https://github.com/aman-1111/ipl-batsman-run-prediction
5. **Boston Housing Loan Borrower Prediction**
    - **Description**: Built a machine learning model to predict whether a borrower will default on a Boston Housing loan based on various factors such as income, loan amount, and credit history.
    - **Technologies Used**: Python, scikit-learn, Pandas, Numpy
    - **GitHub Link**: https://github.com/aman-1111/BostonHousing-Jupyter-Notebook
6. **Run/Walk Classification Model**
    - **Description**: Developed a machine learning model to classify activity as “run” or “walk” based on user input like speed, heart rate, and duration. The model uses classification algorithms to determine the activity type.
    - **Technologies Used**: Python, scikit-learn, TensorFlow
    - **GitHub Link**: https://github.com/aman-1111/Run-Walk-Activity-Analysis

7.Salary Prediction (Gender-based)

Description: Built a machine learning model that predicts a person's salary based on various factors, including gender, education, and experience. The model helps understand salary trends across gender categories.

- **Technologies Used**: Python, scikit-learn, Pandas, Numpy
- **GitHub Link**: https://github.com/aman-1111/SalaryGender-jupyter-notebook

8. Student Performance Prediction Model

- **Description**: Developed a machine learning model to predict student academic performance based on factors such as study hours, attendance, parental education, and past scores. The model helps identify at-risk students and improve learning outcomes.
- **Technologies Used**: Python, scikit-learn, Pandas, Numpy, Matplotlib
- **GitHub Link**: https://github.com/aman-1111/StudentPerformance-DualApproach

9. Advanced Port Scanner

- **Description**: Built an advanced port scanner to identify open ports on remote servers, helping to assess the security of networked systems. The scanner is capable of scanning a range of ports and provides detailed status reports.
- **Technologies Used**: Python, Socket, Scapy
- **GitHub Link**: https://github.com/aman-1111/Advanced-Port-Scanner

10. Password Strength Checker

- **Description**: Developed a tool that analyzes the strength of passwords by checking criteria like length, character variety, and common patterns. It provides a rating for password strength and suggests improvements.
- **Technologies Used**: Python, Tkinter, Regular Expressions
- **GitHub Link**: https://github.com/aman-1111/password-strength-checker

11. Personal Portfolio Website

- **Description**: Built a personal portfolio website to showcase technical skills, projects, and contact information. The site includes a contact form where users can easily get in touch.
- **Technologies Used**: HTML, CSS, JavaScript, PHP
- **GitHub Link**: https://precious-klepon-72ceb6.netlify.app/

Work Experience

Software Development Intern
Vedsar India PVT. LTD. | June,2024 – August,2024

- Contributed to the development of [specific software] by writing clean, scalable, and maintainable code in [technologies used].
- Collaborated with the team to implement features and optimize performance.
- Gained hands-on experience in software development, debugging, and testing.

Extracurricular Activities

- Founder of a **.NET Study Group** for students, where we collaborate on projects and discuss topics related to .NET development.
- Active participant in **Hackathons** and coding competitions.

Contact

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