

# Ashutosh Kumar

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## PROFESSIONAL SUMMARY

Motivated Computer Science graduate (B.E. 2025) with strong foundations in **Software Development, AI/ML, and Cybersecurity**. Skilled in building and debugging applications with **Python, Java, Flask, Django, SQL, and REST APIs**, alongside experience in **QA testing, incident response, and secure development**. Hands-on with **data analysis and visualization (Power BI)**, problem-solving, and automation projects. Passionate about applying technology to deliver **reliable, secure, and user-focused solutions** across diverse domains.

## SKILLS AND INTERESTS

Programming Languages	Python, Java, HTML, CSS, SQL
Framework/Tools	Flask, Django, React, RESTful APIs, Django ORM, SQLAlchemy, Git, CI/CD
Databases & Analytics	MySQL, Power BI, Data Visualization, NumPy, Pandas
Cloud Platforms	AWS (Basics), Google Cloud Platform (GCP)
Security Skills	OWASP, Vulnerability Assessment, Network Security, Incident Response
Core CS & Systems	DSA, Linux, OS Concepts, SDLC, Agile/Scrum
Soft Skills	Critical thinking, Problem Solving, Team Collaboration, Time Management

## EDUCATION

<b>Sri Krishna Institute of Technology, Bangalore</b>	2022-2025
Bachelors of Engineering in Computer Science and Engineering	CGPA: 7.92
<b>Acharya Polytechnic, Bangalore</b>	2019-2022
Diploma in Computer Science and Engineering	CGPA: 7.89

## PROJECTS

### AI-Powered Virtual Assistant

- **Developed** a Python & Flask-based AI assistant that **automated** question paper generation, saving 5–10 hrs/week and improving efficiency by 40%.
- **Integrated** Google Vertex AI and Speech Recognition, enhancing the assistant's functionality and user experience.
- **Technologies:** Python, Flask, Vertex AI, Speech Recognition, PyMuPDF, python-docx, REST APIs, NLP.

### Air Drawing (Virtual Pen) Using Hand Gestures

- **Designed and implemented** a real-time computer vision tool that enabled gesture-controlled drawing, color switching, and canvas management.
- **Improved** workflow efficiency by 35% through webcam-based finger tracking with OpenCV and MediaPipe.
- **Technologies:** Python, OpenCV, MediaPipe, NumPy.

### Image Classification using Python

- **Built and optimized** an image classification model using TensorFlow, significantly enhancing accuracy and processing speed.
- **Deployed** model with Flask for web integration using HTML & CSS.
- **Technologies:** Python, Flask, HTML, CSS

## WORK EXPERIENCE

<b>Freelance AI Analyst   Outlier.ai</b>	Oct 2024 – Present
<ul style="list-style-type: none"><li>• Evaluated 100+ AI-generated responses, improving model accuracy by 15%.</li><li>• Provided actionable feedback to enhance AI performance and reliability.</li></ul>	
<b>Data Science Intern   iStudio</b>	Feb 2025 – Jun 2025
<ul style="list-style-type: none"><li>• Built predictive ML models using Python and NumPy, improving analytics accuracy by 20%.</li><li>• Conducted EDA to extract actionable business insights.</li></ul>	
<b>Artificial Intelligence Intern   Ethical Bytes</b>	Jan 2024 – Feb 2024
<ul style="list-style-type: none"><li>• Built AI voice assistant automating 50+ daily tasks.</li><li>• Improved natural language processing and machine learning models.</li></ul>	
<b>Power BI Job Simulation   PwC</b>	Nov 2024 – Dec 2024
<ul style="list-style-type: none"><li>• Created dashboards for call center optimization.</li><li>• Enhanced data-driven decision-making by 25%.</li></ul>	

## CERTIFICATIONS

- ✓ Excel Skills for Business – JP Morgan Chase & Co. (Job Simulation)
- ✓ Ethical Hacking & Penetration Testing – Udemy