

# YUG AGARWAL

*Impact and Purpose Driven. Observe, Learn, Grow.*

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🔗 Portfolio Website: <https://helloyug.github.io/>

## Professional Summary

Proactive **third-year Computer Science (AI)** student with experience in **backend development, research analysis, and business operations**. Skilled in **Python, C, Java, SQL, and DSA**, with hands-on contributions to **10+ automation and AI-driven projects**. Built scalable tools using **OpenCV, MySQL, Tkinter, and Telegram API**, focusing on problem-solving and system design. Certified in **Digital Marketing, Python, Data Analytics**, and **Soft Skills** via platforms like **Google, CISCO, and NPTEL**. Known for strong work ethic, fast learning, and effective collaboration in technical and team environments.

## Work Experience

- **Backend Developer at Tranquiex, Ghaziabad** (May 2025 – Sep 2025)
  - Developed 4+ core backend modules, led 20+ testing iterations, and proposed 15+ future feature enhancements.
  - Collaborated with a team of 6, explored 3+ new technologies, and supported project planning and team coordination.
- **Research Analyst Intern at Nebulyn, Ghaziabad** (Oct 2024 – Apr 2025)
  - Conducted 15+ detailed market and competitor analyses to uncover trends and support strategic planning.
  - Delivered 10+ insight-driven reports from multi-source data, aiding key business decisions.
- **Internship at Medipol Pharmaceuticals Pvt. Ltd., Noida** (Aug 2023 – Sep 2023)
  - Completed a 5-week internship, assisting in 2+ major tender filings, order tracking, and process documentation.
  - Strengthened CorelDRAW skills by completing 10+ design tasks under expert guidance.
- **Active Participation in Family Business** (Apr 2023 – Aug 2023)
  - Created 50+ pricing spreadsheets with delivery, commissions, and distance-based calculations for e-commerce shift.
  - Handled 150+ product inventory and SKUs entries and optimized daily business data using advanced Excel features.

## Education

- **ABES Institute of Technology, Ghaziabad – 201009 (Pursuing)**  
Bachelors of Technology, Computer Science & Engineering, Specialization in Artificial Intelligence & Honors in Cyber Security  
Abdul Kalam Technical University (AKTU – formerly UPTU) | CGPA: **8.41/10**
- **Bhai Parmanand Vidya Mandir School, Delhi – 110092**  
Intermediate: PCM with Computer Science in CBSE Board | Cleared with **76.2%** in 2023
- **New Oxford Public School, Delhi – 110091**  
Secondary education: Home Subjects in CBSE Board | Cleared with **91.0%** in 2021

## Technical Skills

- **Programming Languages:** Python, C and Java
- **Database Management:** MySQL, SQL, SQLite
- **DSA:** Good foundation in Data Structures and Algorithms
- **Design Tools:** Canva, Adobe Express, CorelDraw (Basic)
- **Version Control:** Git
- **Productivity:** Office 365 (Excel, Word, PowerPoint)

## Projects

- **HandScope – AI-Based System Control via Hand Gestures (Python, MediaPipe, OpenCV, PyAutoGUI)**  
Developed a hand gesture-controlled automation tool to perform **7+ system tasks** (e.g., volume control, mute/unmute, app launch, etc.) using real-time computer vision with over **90% accuracy**.
- **Telegram Bot for Billing & Stock Management (Python, MySQL, Telegram API)**  
Created a Telegram bot **handling 100+ billing** and inventory queries, integrating MySQL & Excel to streamline backend operations. Enhanced small business workflow **efficiency by 50%** through automated menu-driven chatbot interactions.
- **Canteen Management System (Python, MySQL)**  
Designed a robust system to **manage 200+ orders**, automate inventory updates, and generate real-time bills. Demonstrated GUI and backend development skills using Tkinter and MySQL.
- **MySQL Backup & Recovery Utility (Python, MySQL)**  
Developed a **1-click utility** for text-based MySQL backups with database/table selection; achieved **98%+ recovery** success in test runs, simplifying disaster recovery.

- [Various Small Computation, Automation, and Management Projects](#)

*Built multiple utility tools including a **Late Comers Management System (Desktop & Web)**, **Windows Login UI Replica**, **Cipher Tools for message Encryption-Decryption**, **Sound Swap Tool**, and an **SQL Deletion Prank Tool**. Also explored data manipulation using **Pandas** and **NumPy**, showcasing versatility in building efficient, creative, and purpose-driven mini projects.*

## Certifications

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- The Fundamentals of Digital Marketing - Google
- Biometrics online course offered by NPTEL - TCS iON
- Master Data Management for Beginners - TCS iON
- Elements of AI - Minna Learn
- The Joy of Computing using Python – NPTEL
- Developing Soft Skills & Personality – NPTEL
- Python Essentials 1 – CISCO Networking
- Data Science for Engineers – NPTEL
- Data Analytics with Python – NPTEL

## Other Details

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- **Position of Responsibility**
  - Elected **Class Representative** – Coordinated between students and faculty, ensuring smooth communication and representation of student concerns.
  - Elected **Student Member, Institution's Innovation Council (IIC)** – Contributed to organizing innovation-driven activities and fostering peer collaboration.
- **Typing Speed:** 55 WPM+ with 98%+ Accuracy
- **Languages Known:** Hindi (Native), English(Working Proficiency)
- **Soft Skills:** Attention to detail, Communication, Problem Solving, Critical Thinking, Adaptability, Quick Learning