YUG AGARWAL

Impact and Purpose Driven. Observe, Learn, Grow.

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

Professional Summary

Proactive **second-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 – Present)**
  - *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

- 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

- **Position of Responsibility:** Elected as **Class Representative,** enhancing & depicting leadership & communication Skills
- **Typing Speed:** 50 WPM+ with 98%+ Accuracy
- **Languages Known:** Hindi (Native), English(Working Proficiency)
- **Soft Skills:** Attention to detail, Communication, Problem Solving, Critical Thinking, Adaptability, Quick Learning