

SYED OMER HUSSAIN

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SUMMARY

Graduate student in Computer Science (Data Analytics & ML focus) with experience in predictive modeling, scalable web applications, and system optimization. Skilled in delivering data-driven solutions with measurable improvements in accuracy, efficiency, and user experience.

EDUCATION

Governors State University, Chicago, IL (Expected) May 2027
Master of Science, Computer Science

Osmania University, Hyderabad, India June 2025
Bachelor of Engineering, Information Technology, GPA, 7.5

SKILLS

- **TECHNOLOGY:** Python (Pandas, NumPy, TensorFlow, Django), Java, C/C++, HTML/CSS, JavaScript
- **DATABASE AND TOOLS:** MySQL, SQL Server, Git, MS Excel
- **LANGUAGES:** English, Hindi and Urdu

WORK EXPERIENCE

DATA ANALYST INTERN

DATAPPOINT IT & HARDWARE PVT. LTD, Hyderabad, India JAN 2024 - FEB 2024

- Built and integrated Django-based APIs, improving system response times by **25%**.
- Preprocessed 500K+ transactions for a fraud detection ML model; boosted accuracy by 18% and reduced false positives by 12%.

WEB DEVELOPER INTERN

PANTECH E LEARNING PVT. LTD, Hyderabad, India MAY 2024 - JUN 2024

- Built Online Crime Reporting System for 500+ users with secure SQL backend.
- Boosted page responsiveness & load times by 40%.
- Collaborated with 3 developers via Git for task management and code quality.

PROJECT EXPERIENCE

Speech Enhancement using Residual CNN:

- Designed and trained a deep learning model to enhance noisy speech signals using residual CNNs.
- Improved signal-to-noise ratio (SNR) by **7 dB** and intelligibility scores by **22%**, outperforming traditional denoising methods.
- GitHub: <https://github.com/iamomer2707/speechenhancement>

Static Keystroke Dynamic Authentication (SKDA):

- Developed an authentication system leveraging keystroke features (NumLock, Shift, CapsLock).
- Increased verification accuracy from **82% → 93%**, demonstrating significant improvement.
- GitHub: <https://github.com/iamomer2707/statickeystroke>

ACHIEVEMENTS

- Published research in International Journal of Scientific Development and Research (IJS DR).
- Built award-winning Scratch game at age 15 (DXC Technology, 2nd place).
- Completed **CS50P (Harvard Online)**.
- Mentored 30+ students in math & computer science.