

# Noureldin ahmed talaat

Senior Computer Science (AI) Undergraduate |  
ML Engineer | NLP + LLMs + GenAI

AI-Focused Computer Science Senior with hands-on experience in ML pipelines, LLMs, UI/UX, and AI security. Proven ability to build and deploy NLP and ML systems with real-world impact. Actively developing GenAI agents and publishing AI research.

CONTACT	<div><div>Phone: +20 010 69046666</div><div>Address: Cairo,Egypt</div><div>Email: <a href="mailto:nourabulnasr@gmail.com">nourabulnasr@gmail.com</a></div><div>Portfolio: <a href="https://nourabulnasr.github.io">nourabulnasr.github.io</a></div><div>Links: (<a href="https://nourportfolio-simple.vercel.app/">https://nourportfolio-simple.vercel.app/</a>)   (<a href="https://www.kaggle.com/nourabulnasr">https://www.kaggle.com/nourabulnasr</a>)</div></div>	
PROFESSIONAL EXPERIENCE	<div>CipherGenix — ML Engineer / UI-UX Designer</div> <div>2024   Present</div> <div><ul style="list-style-type: none"><li>Led UI design for AI security tools using Figma, producing intuitive mockups and prototypes.</li><li>Developed an end-to-end ML pipeline for detecting training-time data poisoning attacks.</li><li>Collaborated with sales/product teams to align technical deliverables with client needs</li></ul></div>	
	<div>Corelia (Meapal) — Data Scientist Intern</div> <div>7/2024   10/2024</div> <div><ul style="list-style-type: none"><li>Trained CNN and zero-shot NLP models for image and document classification.</li><li>Implemented object detection systems and data visualizations in Python</li><li>Gained proficiency in computer vision techniques (image classification, object detection, zero-shot classification) and natural language processing</li></ul></div>	
	<div>PepsiCo — IT Intern (Asset Management and Networks)</div> <div>7/2025   9/2025</div> <div><ul style="list-style-type: none"><li>Managed hardware/software inventory using ServiceNow and Excel..</li><li>Participated in license tracking, IT compliance, and support operations.</li><li>Assisted in troubleshooting and monitoring enterprise network performance across departments.</li><li>Collaborated with network teams to resolve connectivity issues and configure switches and routers</li></ul></div>	
EDUCATION	<div>Misr International University   2022- Expected June 2026</div> <div>BSc in Computer Science (Artificial Intelligence)</div> <div><ul style="list-style-type: none"><li>Relevant Courses: Machine Learning, NLP, Computer Vision, Data Mining, Deep Learning, Intelligent Agents</li></ul></div>	
	<div>Green Heights Language School   2008-2022</div> <div>High School National Diploma</div>	
CERTIFICATES		
	<div>HarvrardX   2024</div> <div>Machine learning and Data Science</div>	<div>Google   2025</div> <div>Introduction to Generative AI</div>
	<div>IBM   2024</div> <div>Machine Learning</div>	<div>CBAP   2024</div> <div>Certified Business Analayst</div>

## TECHNICAL SKILLS

- **Languages:** Python, C++, JavaScript, HTML/CSS and SQL
  - **AI/ML Frameworks:** PyTorch, TensorFlow, Keras, scikit-learn, Gradio and OpenCV
  - **Web/Tools:** React, Git, Figma, VSCode and Jupyter
  - **AI Concepts:** LLMs, RAGs, Zero-shot Learning and NLPs
  - **Platforms:** Google Cloud, Hugging Face, Kaggle, ServiceNow
  - **Soft Skills:** Communication, Leadership, Teamwork, Adaptability
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## SELECTED PROJECTS

### Fake News Detection with DL & ML Models — Kaggle

- Built and evaluated 3 ML + 3 DL models (SVM, NB, LSTM, BiLSTM, CNN) on ISOT/LIAR datasets.
- Achieved 92% F1-score using BiLSTM and improved precision with TF-IDF and Word2Vec embeddings.
- Published Research Paper on ResearchGate made on Overleaf LaTeX

### AI Dungeon Master Game — AI Agent-based Narrative Engine

- Developed interactive text adventure RPG using GPT-3.5 + LangChain.
- Implemented prompt chaining, user-driven storytelling, and procedural content generation.

### Face Emotion Detection — FER2013 Dataset, Deep Learning

- Created a real-time emotion recognition system using CNNs in TensorFlow.
- Trained on FER2013 dataset and implemented live camera feed prediction via OpenCV.
- Achieved over 88% test accuracy on multi-class emotion classification.

### Real Estate Price Prediction — Regression & Feature Engineering

- Developed a regression model to predict house prices using location, area, and amenities.
- Applied feature engineering, outlier removal, and normalization techniques.
- Achieved R<sup>2</sup> score of 0.89 and deployed insights via interactive dashboard.

### Student Turnover Prediction — HR Analytics, Classification Model

- Built a classification model to predict student attrition based on academic, engagement, and socio-economic features.
  - Applied data preprocessing techniques including label encoding, feature scaling, and outlier handling.
  - Trained models using Logistic Regression, Random Forest, and XGBoost, achieving 91% accuracy.
  - Conducted feature importance analysis to identify top drivers of dropout likelihood.
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## PROFESSIONAL EXPERIENCE

- **Tutor:** Mentored students at GIU, GUC, and MIU in CS, ML, and Coding courses.
- **Languages:** Native Arabic, Fluent English, Intermediate German (B1).