SAKINA ISMAIL

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EDUCATION

Drexel University, College of Computing and Informatics   **Expected Graduation: June 2029**
Bachelor of Science in Computer Science (GPA: 3.84)   *Philadelphia, PA*
Coursework: Intro to Computer Science, Computer Programming I-II, Computing & Informatics Design I-III

TECHNICAL SKILLS

Programming Languages: Python, PHP, SQL, Bash, HTML/CSS/JavaScript, Windows PowerShell
Developer Tools: Git, Apache, NetBeans, Jupyter Notebook, Visual Studio Code, HuggingFace
Frameworks & Libraries: Flask, TensorFlow, Scikit-learn, FastAPI, Selenium, NumPy, Plotly

PROJECTS

HoopsAnalytics | *Flask, Gemini API, MongoDB, Pymango, Selenium, Jinja2*   **January 2025 – Present**
- Led a team of four to build a web app analyzing NBA stats with Python, Flask, and HTML/CSS for detailed insights
- Collaborated on web scraping pipelines for real-time stats, storing structured data in a connected MongoDB database
- Integrated Gemini API to compare player stats through a chatbot interface, enabling dynamic user interaction

GhostGuard | *Flask, Scikit-learn, Joblib, Numpy*   **April 2025 - Present**
- Built a Flask web application that analyzes typing/mouse patterns in real-time to flag potential fraud attempts
- Implemented Isolation Forest ML to detect 50%+ of fraud behavior in real-time, demonstrating effective bot detection
- Designed a clean dashboard interface with Bootstrap, improving user interaction and accessibility of flagged sessions

Health Coach | *Flask, TensorFlow, OpenAI API, Scikit-Learn, Pandas*   **March 2025**
- Led a team of six to develop a disease risk tracker intuitive web app using Python, Flask and HTML within 48 hours
- Trained machine learning models to analyze user symptoms and predict the likelihood of diseases like diabetes
- Integrated ChatGPT API for real-time chatbot support, improving symptom input and risk assessment

AI-Powered Misinformation Detector | *Flask, SQLAlchemy, BERT, Google Fact Check API*   **February – March 2025**
- Developed an AI-powered web tool detecting and flagging online misinformation in real time, enhancing media literacy
- Integrated NLP models, fact-checking APIs, and custom scoring algorithms to evaluate credibility across digital content
- Led full-stack development using Flask, Python, and RESTful services, delivering a solution tackling digital trust

Formula One Race Insights | *Flask, Scikit-Learn, Pandas, TensorFlow, Joblib, Numpy*   **January – February 2025**
- Built a Flask web app using Plotly to visualize F1 telemetry features, enabling deeper, interactive race analysis
- Achieved 80% accuracy by training a Random Forest model on VGG16 features to classify custom Formula 1 car images
- Improved race data access by integrating FastF1 and Ergast APIs, enabling dynamic dashboards and real-time insights
- Cut latency by 40% through file-based caching and modular Flask routes, accelerating telemetry data loading speeds
- Predicted lap times and winners with 75%+ accuracy using Random Forest Regressor trained on historical F1 data

WORK EXPERIENCE

Python Developer   **November 2024 - Present**
Engineers Without Borders   *Philadelphia, PA*
- Developed a solar tracking system using Python and Raspberry Pi to assist sunlight alignment for a local farm
- Integrated image processing techniques to detect brightest spot in camera input and calculate deviation

Executive Council Member   **August 2022 - August 2024**
Sight (Non-Governmental Organization)   *Lahore, Pakistan*
- Led design, operations, and outreach efforts in a 150+ members NGO, driving cross-functional collaboration
- Raised PKR 1M+ through drives for education, healthcare, and resource distribution for underprivileged communities
- Managed a team to coordinate social media's content and events covered by national media channels to extend impact

CERTIFICATIONS

LLM Engineering: Master AI, Large Language Models Agents – Udemy (2025)
Machine Learning: AI, Python R + ChatGPT – Udemy (2025)
Supervised Machine Learning: Regression and Classification Course - Stanford University, Coursera (2023)

ACTIVITIES & LEADERSHIP

Drexel Artificial Intelligence Society | *Member*   January 2025 – Present
Drexel International Student Association | *Events Coordinator*   March 2025 – Present
Drexel College of Computing and Informatics | *Digital Development Camp Counselor*   July 2025
Drexel Asian Students Association | *Secretary*   September 2024 – Present
Drexel Formula SAE | *Member*   September 2024 – Present