DEVARSH KOTAK

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Driven and detail-oriented Computer Science student with a strong passion for AI, data visualization, and backend development. Skilled in Python, machine learning, and full-stack project delivery with a focus on real-world applications. Experienced in building conversational AI systems and dynamic dashboards using modern data tools and libraries. Known for solving complex problems through structured thinking and delivering high-quality, user-centric solutions.

Education

Bachelor of Science, Computer Science- Algoma University, Brampton, ON   May 2023 – Present
Relevant Coursework: Data Structures & Algorithms, System Development, Computer Architecture, Database Systems, AI & Machine Learning, Theory of Computing, Assembly Language, Computer Graphics, SQL

Technical Skills

Languages: Python, Java, C++, SQL
Libraries/Tools: Pandas, NumPy, Scikit-learn, FastF1, Streamlit, Matplotlib, Git
AI/ML: NLP (spaCy, NLTK), Keras, TensorFlow, PyTorch, Transformers
Other: UI/UX Design, Database Management, Digital Marketing

Professional Experience

IT Support Intern   Sept 2022 – Feb 2023
National Tech Solutions, Ahmedabad, INDIA
- Gained hands-on experience in diverse IT domains, including managing data and technical support Troubleshoot authentication and access issues related to university portals and accounts
- Create and maintained detailed documentation or IT assets procedures and configuration.
- Provided technical support and escalated unresolved issues to the appropriate IT teams.

Orientation Leader   Aug 2023 – Present
Algoma University, Brampton, ON
- Facilitated onboarding for new students by delivering key university and city information.
- Supported academic orientation by guiding students through course structures and registration.
- Acted as a primary point of contact for student queries, helping resolve early-semester challenges.
- Promoted student engagement and created a welcoming environment during orientation events.

Relevant Projects

AI Chatbot Assistant   Oct 2024 – Dec 2024
- Designed and developed an AI-powered chatbot using **Python** and **NLP** to answer queries in real time.
- Integrated intent recognition and entity extraction using **spaCy**, allowing intelligent & context-aware conversations.
- Engineered a modular Python backend for seamless NLP processing and conversation flow logic.
- Created a user-friendly web interface to simulate a live support assistant experience.
- **GitHub**

Formula One Race Performance Dashboard   Jan 2025 – Feb 2025
- Built an interactive dashboard using **Streamlit** and **FastF1** to visualize F1 telemetry and lap-by-lap race insights.
- Extracted and cleaned race data using **Pandas**, with support for custom filters by race, team, or driver.
- Visualized lap times, pit stops, and sector comparisons using **Matplotlib** and dynamic charting.
- Enabled real-time analysis with intuitive UI components for deep dive into driver performance.
- **GitHub**

Formula One Race Performance Dashboard   Feb 2025 – Mar 2025
- Created a real-time telemetry simulator using **FastF1** and **Python**, emulating live race data and playback.
- Displayed dynamic metrics such as speed, gear changes, sector timing, and brake/throttle usage.
- Developed tools for lap selection and head-to-head driver comparisons across races.
- Structured the app for easy deployment and scalability with user-friendly controls and overlays.
- **GitHub**

Certification

IBM Generative AI & Deep Learning Specialization - *Coursera*   Apr 2025 – Present
- Topics included: Supervised/Unsupervised ML, Neural Networks, CNNs, RNNs, LLMs, Transformers, LangChain, RAG, and Hugging Face.