AANYA GOEL

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EDUCATION

Algoma University | Bachelor of Computer Science (Honors)   May 2022-Dec 2025
Clubs: Student Life Team (Orientation Leader, GTA Volunteer), Computer Science Society, Gaming Club
Awards: Chancellor's Award - 5000$

PROFESSIONAL EXPERIENCE

Engineering Data Analyst (COOP) | BMO   Aug 2024 – Dec 2024
- Incoming intern at BMO as an Engineering Data Analyst.

Data Scientist (COOP) | Bell   May 2024 – Aug 2024
Gen AI Team
Gitlab CI/CD Pipeline:
- Designed and implemented efficient MLOps pipelines, leveraging tools like GitLab CI/CD, Terraform, and Docker to automate build, test, and deployment processes.
- Managed cloud infrastructure, including Vertex AI workbenches and GCS buckets, through Infrastructure as Code (IaC) practices. Automated unit, integration, and end-to-end testing with Make commands and pytest, significantly improving code quality.
- Streamlined model storage and version control processes using custom modules, and conducted technical demos to onboard tenants, resulting in improved onboarding, and adoption of new processes.

AI Governance Framework:
- Developed a comprehensive AI Governance Framework, including standards and regulations, risk and compliance management, data governance, and model documentation.
- Created detailed documentation and updated existing policies to ensure alignment with best practices.
- Utilized data management platforms like Collibra and compliance tools such as OneTrust to enhance governance practices.
- Engaged stakeholders to tailor the framework to their needs, incorporating model monitoring tools like MLflow and bias detection tools like Fairness Indicators resulting in a robust structure that promotes ethical and transparent AI practices.

Enterprise Architecture Team
Business Capability Model:
- Developed a Business Capability Model by collaborating with business and IT teams to understand and map business capabilities. Created and managed models for current (CMO) and future (FMO) states leveraging documentation frameworks like TMF and TOGAF, conducted Gap Analysis, and developed Roadmaps for transition.
- Utilized Enterprise Architecture tools such as Ardoq and LeanIX along with project management tools like Jira for optimization and ensured effective Change Management, Compliance, and Stakeholder Communication leading to reduction of 30 applications in the inventory.

Information Technology Specialist | Algoma University   Aug 2023 – April 2024
- Resolved software and hardware issues, managed system updates, and resolved **more than 500** support requests through the ticketing system, maintaining a **response time of less than 24 hours**. Provided support for web conferencing tools to facilitate meetings across different campuses, ensuring uninterrupted communication.
- Organized and managed on-campus gaming sessions and events, providing technical support for equipment and resolving any issues that arose.

Research Assistant | Algoma University   May 2023 – Aug 2023
- Contributed to AI and data projects, including developing a market research tool using **LLM** for business owners where it emphasized interactivity, customization, and comprehensive reporting, engaging users in dialogue and providing tailored analyses leading to **an 80% improvement** in data accuracy.
- Published the research paper on this project by preparing research protocols, refining research questions for literature reviews, and communicating with researchers to obtain valuable resources.

SKILLS

Programming Languages: Python, C, Java, JavaScript, HTML, CSS, C++, HCL, YAML
Tools/Technologies: Tableau, Power BI, SQL, Linux, Shell Scripting, Git, Jira, Confluence, React.js, Bootstrap, Shopify, WordPress, Microsoft Office, Ardoq, LeanIX**,** NLTK, GCP, AWS, Gitlab, Terraform, Gitlab CI/CD, Docker, Kubernetes
Libraries: NumPy, Pandas, Seaborn, Matplotlib, TensorFlow, PyTorch, Scikit Learn, SciPy, Keras, EDA (Exploratory data analysis), Supervised and unsupervised models with algorithms
Soft skills: Scrum/Agile and Waterfall methodologies, teamwork, deliver results, fast learner

PROJECTS

EMAIL SPAM DETECTION | Logistic regression, NLTK, Scikit-learn, Naïve Bayes
- Developed an email spam detection system by implementing machine learning models to classify emails as spam or non-spam/ ham. Achieved a **90%** accuracy rate, significantly reducing the amount of spam emails reaching users' inboxes and improving overall email security.

DIABETES PREDICTION MODEL | EDA, Logistic Regression, NumPy, Pandas, Power BI, Tableau
- Created a predictive model to assess diabetes risk, utilizing logistic regression and advanced data analysis techniques. With thorough exploratory data analysis and Python libraries, the model achieved a **75%** accuracy rate in predicting diabetes development. Integrated with Power BI and Tableau, it showcases interactive dashboards, providing clear insights.

VIDEO SEARCH APP USING GOOGLE API | React.js, HTML, CSS, JavaScript, Bootstrap, Google API
- Built a React.js app with Google API integration for video searches, emphasizing efficient state management, and improved user experience with debouncing for seamless video search and playback.

ARCHITECTURAL HOUSE MODEL | HTML, CSS, JavaScript, Three.js, Web GL, Blender
- Created an immersive architectural house model allowing users to navigate a lifelike 3D environment within their web browsers. Utilizing Blender for house design and Three.js, WebGL, and other programming languages for the inside-outside environment, the project offers a realistic exploration experience.