Choyon Uddin

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EDUCATION

Toronto Metropolitan University (Formerly Ryerson University)   **September 2020 - April 2025**
- ***Bachelor of Science in Computer Science, Minor in Psychology***
- Metropolitan Data Science Association (MDSA) Associate, Computer Science Union (CSU) Associate

WORK & LEADERSHIP EXPERIENCE

UX/Data Analyst   **Toronto, Canada**
HotTakes   **February 2025 - May 2025**
- Analyzed user behaviour with PostgreSQL to uncover trends, leading to strategic changes that boosted engagement and retention by 15%
- Built dashboards using Metabase and Mixpanel, improving data access and speeding decision-making by 30%
- Resolved 95% of user issues within 24 hours using Firebase, GitHub, and cross-team coordination to improve overall platform satisfaction and user experience
- Performed A/B tests daily to evaluate features on current and new builds of the platform
- Automated support and reporting workflows using Zapier and SQL to cut manual work by 40%

Quality Assurance Analyst Intern   **Toronto, Canada**
theScore   **September 2022 – May 2023**
- Executed 3,000+ tests across Android, iOS, and Web to validate theScore Bet features and platform functionality, reducing regression testing time by 20%
- Developed automation scripts in Selenium to improve test execution, increasing test coverage by 30% and reducing manual QA time by 40%
- Owned TestRail suites and led coordination with fellow QAs and developers for major features (Move The Line, Parlay+), ensuring full test coverage and smooth release cycles
- Logged and tracked bugs using Jira and Confluence, improving resolution turnaround by 15%
- Collaborated across QA, dev, and product teams to launch major features, improving deployment quality and minimizing post-release issues

SKILLS & CERTIFICATIONS

Certifications: IBM Data Science Professional

Programming Languages: Python, Java, Rust, SQL (PostgreSQL), Go, JavaScript, PHP

Frameworks/Libraries: NumPy, Pandas, PyTorch, TensorFlow, scikit-learn, SciPy, Matplotlib, Seaborn, FastAPI, React, Node.js, Bootstrap, Selenium, Playwright

Developer Tools: Git/Github, Docker, AWS, Google Cloud Platform, MongoDB, Oracle, Hadoop, Linux/Unix, Google Analytics, Testrail, Atlassian Suite (Jira/Confluence), Jupyter, Metabase, Amplitude

PROJECTS

**Envision: AI-Driven Accessibility Platform | ** *Python, OpenAI, PyTorch, Pillow, SciPy, Pandas, LLM DETR ResNet-50*
- Collaborated with colleagues to develop a real-time AI-powered tool for visually impaired users, combining object detection and large language models to provide environment descriptions
- Coordinated the implementation of the object detection pipeline using PyTorch and OpenAI, achieving over 90% accuracy in live video recognition, providing vivid descriptions for enhanced awareness

**Handwritten Symbol Recognition – Keras Deep Learning | ** *Python, Machine Learning, Neural Networks, Keras*
- Built and trained a deep neural network in Keras to classify handwritten digits from the MNIST dataset
- The model was designed with a sequential architecture comprised of multiple simple and dense layers that utilize the ReLU and Softmax activation functions across 300+ neurons
- Achieved 100% accuracy across ~20 epochs, validating the model's precision in symbol identification.

**FRED: Fraudulent Retrieval & Event Detection | ** AWS EC2 & Lambda, Docker, FastAPI, SageMaker
- Built a real-time fraud detection API using FastAPI and Docker, using predictions from an XGBoost model trained on credit card transaction data with 90% fraud precision.
- Deployed the system using AWS Lambda, EC2, and SageMaker for scalable, serverless inference; integrated with DynamoDB for transaction logging and fraud alerting.
- Implemented CI/CD with GitHub Actions to automate training, testing, container builds, and cloud deployment for a production-ready ML pipeline.