

# Billy Aggarwal

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Software Developer with 8 months of experience at Goeasy Ltd. seeking to officially pivot into Machine Learning, aligning with my long-term career goals. In my developer role, I proactively initiated this transition by leading an AI Taskforce, training classical (logistic regression) and TensorFlow models, and orchestrating the full ML pipeline from dataset curation to integration.

## Education

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### York University

Bachelor Of Engineering - Software Engineering, Specialized in Big Data

Toronto, Canada

Graduation Date: 06/15/2027

Awarded Dean's Honor Roll for securing a GPA greater than 7.5 in first year.

### Certifications:

Deep Learning Specialization, React Developer, NodeJS Developer, Mastering Coding Algorithms

## Work Experience

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### Software Developer

Goeasy Ltd

Jan 2025 – Aug 2025

33 City Centre Dr

- Led an enterprise-scale AI Proof of Concept as part of the company's AI Taskforce as Project Manager — fine-tuned LLMs and classical models (*logistic regression*, *TensorFlow*, *scikit-learn*) on 100K+ structured customer emails (JSONL) to automate reply generation and classify message intent and deletion.
- Designed and deployed a complete ML workflow — including dataset curation, preprocessing pipelines, model training, validation, and integration with internal APIs — ensuring reproducibility, scalability, and efficiency.
- Translated research concepts into production-ready code, adapting state-of-the-art ML techniques for enterprise deployment and earning VP-level recognition for accelerating company-wide AI adoption.
- Engineered backend systems and optimized APIs (Node.js, GraphQL, Contentful) to support AI integrations, building asynchronous resolvers for automated credit reporting and debugging complex API schema mismatches.
- Led UI revamp of legacy loan application, reducing load time from 7s to 2.7s improving wait time by 40% optimizing React rendering, Firebase reads, and lazy-loading components.
- Spearheaded CI/CD pipeline revamp (ongoing) to streamline deployments and standardize product modifications across websites.
- Restructured Google Analytics pipeline to eliminate junk data, clarify “app lands,” and improve tracking accuracy; applied event tagging, pageview filtering, and GA4 funnel visualization.

## Related Projects

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### Neural Style Transfer

Aug 2025 – Sept 2025

Personal Project

- Developed a neural style transfer web app that blends two images into a single stylized output using a VGG-based deep learning model.
- Deployed the ML model on Hugging Face and integrated it with a React front-end for seamless user interaction.
- Showcased practical application of computer vision and transfer learning making it production-ready environment.

### Research Assistant

Laboratory of Advanced Biotechnologies for Health Assessment

Jan 2024 – Jun 2024

York University

- Co-authored a biology research paper to detect the presence of Hepatitis using LFA strips.
- Performed Image Processing techniques on more than 100 test strips using MATLAB and Python to calculate the concentration of a particular protein.

## Technical Skills

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**Languages:** Python, JavaScript, Java, C, RISC-V, Verilog programming, Structured Query Language (SQL)

**Developer Tools:** GoogleColab, Contentful, Azure Dev Ops, Google Analytics, Confluence, JIRA

**Libraries:** Scikit-Learn, PyTorch, TensorFlow, Keras, OpenCV