Ashish Thomas

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Education

Northeastern University Sep. 2022 – Dec. 2025
Bachelor of Science in Computer Science, Concentration in AI *Boston, MA*
Honors: GPA: 3.8, Dean's List
Courses: Machine Learning and Data Mining, Algorithms and Data, Artificial Intelligence

Northeastern University Jan. 2025 – Dec. 2026
Master of Science in Computer Science (Part of Plus One Program) *Boston, MA*

Experience

Software Engineering Intern Jun. 2025 – Sep. 2025
Atlassian *New York, NY*
- Contributed to Trello's Billing Platform team by developing fullstack features using React, Node.js, and Express.
- Built invoice retrieval endpoints in C# calling MS SQL Server on AWS RDS for enterprise billing support.
- Enhanced an internal subscription management tool in TypeScript, reducing on-call incident resolution time.
- Ensured backwards compatibility for updates across GraphQL and REST API architecutres across 3 services.
- Integrated third-party services like Xero and Salesforce into backend systems for enterprise subscription tracking.
- Migrated existing unit and integration test suites from Mocha to Jest, improving test speed and maintainability.

Data Science Co-op Jan. 2025 – Jun. 2025
The TJX Companies, Inc. *Framingham, MA*
- Worked on ad-hoc data analysis projects for Marketing, Finance, and Real Estate teams with Python and Pandas.
- Contributed to work on Sierra store-profitability machine learning model using Elastic Net Regression.
- Built market expansion simulation covering 600+ potential stores, shared to Finance and Real Estate teams.
- Developed and automated customer service report collection and dashboard creation with PowerBI.

Data Analytics and Engineering Co-op Jan. 2024 – June 2024
Massachusetts Bay Transportation Authority *Boston, MA*
- Led extraction and transformation of procurement and financial data by building Tableau and Trello workflows.
- Rebuilt ETL pipeline with Python, Pandas, SQL, and Crontab in Linux environment to handle 100,000+ records.
- Wrote Selenium scripts to automate collection of rail station reports, improving maintenance analysis time 60%.
- Developed a time-series forecasting model with XGBoost and MLForecast to assess risky purchase orders.
- Managed KPI dashboards with visualization of purchase order fulfillment across 5 departments with Python.

Projects

Kicks | *React, MongoDB, Flask, Hugging Face, AWS* June 2024 – Sep. 2024
- Designed and deployed a full-stack web application for shoe recommendations with React and Tailwind CSS.
- Built a REST API microservice with Flask, Nginx, and Gunicorn for retrieval of 100+ shoes, hosted on AWS EC2.
- Applied prompt engineering techniques with a Llama 3.1 LLM via Hugging Face's Inference API for shoe options.
- Stored users' shoe searches in MongoDB and retrieved them on Gallery page through an Express backend.

Playlist Recommender | *Spotify Web API, Python, Pandas, NumPy, SciKit-Learn* Jan. 2024 – May 2024
- Extracted 60,000 unique playlists with Spotify's Web API using Python and the Pandas/OS libraries.
- Analyzed relationships between audio features of existing playlist songs with Seaborn for feature engineering.
- Compared algorithm performance across Random Forest, SVM, and KNN Classifiers trained with SciKit-Learn.
- Tuned with GridSearchCV for 20% accuracy boost, and tested model performance with real users' playlists.

Technical Skills

Languages:	Python, TypeScript, SQL, C#, Java, HTML/CSS
Frameworks:	React, Node.js, Flask, Django, JUnit, Express, Selenium
AI & Cloud:	AWS, Hugging Face, WatsonX, OpenAI
Developer Tools:	Git, Jira, VSCode, IntelliJ, Eclipse, Miro, Trello
Libraries:	Pandas, NumPy, Matplotlib, SciKit-Learn, PyTorch, TensorFlow, XGBoost