

# Ashish Thomas

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## EDUCATION

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**Northeastern University** Sep. 2022 – May 2026  
*Bachelor of Science in Computer Science, Concentration in AI* Boston, MA  
Honors: GPA: 3.8, Dean's List  
Courses: Artificial Intelligence, Machine Learning, Algorithms and Data, Object Oriented Design

## EXPERIENCE

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**Data Science Co-op** Jan. 2025 – May 2025  
*The TJX Companies, Inc.* Framingham, MA  
• Incoming Data Science and Machine Learning co-op on the Data Science team.

**Software Developer** Aug. 2024 – Present  
*Scout Studio* Boston, MA  
• Working with a diverse team of developers and designers to improve the customer experience for [Rooted Living](#).  
• Converting Figma wireframes to an engaging UI/UX through the Shopify platform with HTML/CSS/JavaScript.  
• Fixing the client's website performance and interactivity with a ticket system, weekly sprints, and stand-ups.

**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 predict future inventory needs.  
• Managed KPI dashboards with visualization of purchase order fulfillment across 5 departments with Python.

**Teaching Assistant** Sep. 2024 – Present  
*Khoury College of Computer Sciences* Boston, MA  
• Mentoring 400+ first year students enrolled in the Khoury College at Northeastern University.  
• Facilitating discussions about software engineering and data science best practices across workshops and meetings.  
• Grading student submissions in shell scripting and full-stack development while providing feedback and resources.

## PROJECTS

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**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

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**Languages:** Python, Java, SQL, JavaScript, TypeScript, C, 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