

ALFIN ABRAHAM

Wethersfield, CT | alfinabraham28@gmail.com | +18609954511 | [Portfolio](#) | [LinkedIn](#)

EDUCATION

Master of Science in Computer Science, Specialization in Data Science	September 2022 - June 2024
Seattle University	Seattle, WA, USA
● Awards: Dean's Graduate Student Honor Roll	
● Coursework: Machine Learning, Artificial Intelligence, Cloud Computing, Software Testing & Debugging	
Bachelor of Technology in Computer Science and Engineering (AI)	September 2018 - May 2022
Medicaps University	Indore, MP, India
● Awards: First Division with Honours	
● Coursework: Operating Systems, Computer Networks, Compiler Design, Software Engineering, ML, AI	

EXPERIENCE

Data Analyst	August 2025 - Present
Dreamline AI	Wethersfield, CT, USA
● Built automated web scraping pipelines using Scrapy and Playwright to collect property ownership data from 67 Florida counties, reducing manual data collection time by 80% (from 30 to 6 hours/week).	
● Processed and validated 2M+ property records through standardized data cleaning workflows, identifying 250K+ high-value prospects and enabling targeted marketing decisions for customer acquisition.	
● Developed analytics experiments proving platform value by demonstrating how matching homeowner renovation projects with local, state, and federal incentive programs delivers quantifiable cost savings for customers, supporting data-driven marketing decisions.	
● Tech Stack: Python, Scrapy, Playwright, pandas, Excel, MySQL, Git, Jupyter.	
Data Analyst	September 2024 - August 2025
Community Dreams Foundation	Wethersfield, CT, USA
● Led the design and implementation of a scalable synthetic data pipeline using LLMs (ChatGPT-4o, Claude 3.5 Sonnet) with extensive prompt engineering and RAG to train CDF's ML-powered resume analyzer, addressing data quality and privacy compliance gaps across 35 evolving job roles.	
● Achieved 96.2% model testing accuracy through iterative development sprints using agile principles, delivering structurally consistent, trend-aligned training data 65% faster than prior methods and significantly accelerating candidate screening for internal HRMS workflows.	
● Tech Stack: PostgreSQL, Python, Excel, Tableau, AWS EC2, AWS S3, Selenium	

PROJECTS

Real-Time ASL to Speech Translation System: Enhanced ASL Gesture Interpretation
● Engineered a real-time ASL-to-speech interpreter that boosted gesture detection accuracy by 80% , leveraging MediaPipe for advanced hand tracking and achieving a 46% baseline translation accuracy on complex signs.
● Integrated OpenAI GPT-3.5 to contextually refine missed or low-confidence predictions from the I3D model (threshold 0.5), significantly improving overall interpretation reliability.
● Implemented real-time text-to-speech synthesis with gTTS , generating rapid, natural-sounding audio output directly from live ASL gesture inputs for seamless user communication.
● Tech Stack: Python, MediaPipe, I3D, OpenAI GPT-3.5, gTTS, Computer Vision, HTML, CSS
Stormtroopers-Space Explorer: Innovative teaching tool for elementary school
● Developed a full-stack educational web app in C#, ASP.NET Core, JavaScript, HTML, CSS, and Bootstrap, using modular architecture, reusable UI components, and SOLID principles to ensure scalability and maintainability.
● Maintained 85%+ test coverage with unit, integration, and end-to-end tests, enforcing reliability through CI workflows, peer code reviews, and iterative development in a 3-member agile team.
● Deployed production builds to Azure with clean, reliable release pipelines at the end of each 7-day sprints.
● Tech Stack: C#, ASP.NET Core, JavaScript, HTML, CSS, Bootstrap, Azure, GitHub, Agile/Scrumban

SKILLS

Programming Languages: Python, HTML, CSS, C, C++, C#

Tools: Excel, Tableau, Power BI, Docker, Kubernetes, Postman, Figma

Cloud Technologies: AWS (EC2, S3, RDS, DynamoDB, Lambda, VPC, SageMaker, QuickSight), Azure, GCP

Frameworks: Django, Flask, pytest, Scrapy, Playwright, Selenium

Libraries: spaCy, PyTorch, TensorFlow, pandas, NumPy, Matplotlib, Plotly, D3.js, scikit-learn, Seaborn, boto3

Databases: MySQL, PostgreSQL

Soft Skills: Analytical Thinking, Communication, Detail-Oriented, Problem-Solving, Teamwork, Accountability