

Akhilesh Sivaganesan

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EDUCATION

Georgia Institute of Technology

Bachelor of Science in Computer Science GPA: 3.9/4.0

Atlanta, GA

Aug. 2021 – May 2024

Coursework

Data Structures & Algorithms, Object-Oriented Programming, Linear Algebra, Combinatorics, Calculus 1-3

EXPERIENCE

Integration Data Scientist Intern

Nov. 2021 – May 2022

Mentra

Atlanta, GA

- Recommended jobs to neurodiverse candidates, comparing resume skill profile to job skill profile
- Matched **2000** resumes to job descriptions pulled from data pipeline with **GraphQL** API calls in **Python**
- Created skill profile by first extracting hard skills present in respective text with **Pandas** and **spaCy**
- Added soft skills absent from initial skill profile by checking similarity to known soft skill bank with **GloVe**
- Completed skill profile by identifying groups of related skills spelled differently with **LDA algorithm**
- Performed **cosine similarity** to output match percentage between skill profiles of resumes and jobs

CERTIFICATIONS

AWS Certified Solutions Architect – Associate | Amazon Web Services

Aug. 2022 – Aug. 2025

PROJECTS

Vue.js Projects | Vue.js, JavaScript, Firebase, Bootstrap, HTML/CSS, Git

June 2022 – Aug. 2022

- Launched live personal site by self-learning front-end framework **Vue.js** with responsive web design
- Performed **SEO** to display site in top Google Search Results with Firebase console analytics
- Deployed flashcard generator to deliver spaced repetition learning solution with **XML/JSON** input
- Integrated **Google Firebase** for hosting apps and user authentication

Voltaic Industries | Webflow, JavaScript, HTML/CSS

Sept. 2020 – June 2021

- Built website for mock company selling electric vehicles like Tesla with **Webflow** and **JavaScript**
- Generated webpages dynamically populated by database entries for each vehicle
- Applied **responsive web design** to create futuristic, animated site for smartphones and tablets
- Invented futuristic brand identity with sleek typography and stylized logo in **AutoCAD** and **Blender**
- Integrated common visual design cues to lead users to key actions and ease user experience

Fruit Quality Scanner | Python, React Native, OpenCV, Keras, Git

Sept. 2020 – March 2021

- Marked the fresh fruit inside grocery fruit crate images with **React Native** web app
- Located distinct fruit objects in crate with semantic segmentation in **OpenCV**
- Classified single fruits as apples, bananas, or oranges with **MobileNet CNN**
- Trained **k-means CNN** on **2000** distinct fruit images marked as fresh or not for each fruit type
- Identified fresh fruit with **85.1%** average accuracy of true positive and true negatives across all fruits
- Performed market research, prototyping, unit testing, and documentation in **10** sprints

Brain Tumor Detector | Python, Keras, Matplotlib, Scikit-learn, Git

March 2020 – April 2020

- Identified brain tumors in CT scans by training algorithm on **500** CT scans with and without tumors
- Evaluated varying performance of **CNN**, **KNN**, and **RNN** architectures in tumor detection
- Discovered **KNN** performed best with **84.1%** true positive & **72.7%** of true negative accuracy
- Preprocessed data input by standardizing CT scan sizes and removing color in **Matplotlib**

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, SQL, GraphQL, HTML/CSS, TypeScript

Frameworks: Vue.js, Node.js, React.js, React Native, JUnit, Webflow

Developer Tools: AWS Cloud, Google Firebase, Visual Studio, Jupyter Notebook, PyCharm, IntelliJ, Git, Docker

Libraries: NumPy, Pandas, Scikit-learn, Matplotlib, TensorFlow, Keras, OpenCV, Word2Vec

Concepts: Software Development, Cloud Computing, Full Stack Web Development, Machine Learning, NLP, Relational Databases, Distributed Systems, REST API, Linux, Unix Operating Systems, Agile, Scrum, Design Thinking, Iterative Design, UI/UX Design, Web Scraping, Data Visualization, SEO