

AKHILA ASHOKAN

akhila.ashokan1776@gmail.com | (615)424-5786 | www.github.com/akhila-ashokan | <https://akhila-ashokan.github.io/>

EDUCATION

- University of Illinois at Urbana-Champaign** August 2020 – May 2022
Master of Science in Computer Science
- Vanderbilt University** August 2015 – May 2019
Bachelor of Science in Computer Science

PROFESSIONAL EXPERIENCE

- Teaching Assistant | University of Illinois at Urbana-Champaign | Urbana-Champaign, Illinois** August 2020 – Present
- Selected as teaching assistant for introductory computer science class (CS 125/CS 124) in Fall 2020, Spring 2021, and Fall 2021
 - Led weekly homework review sessions, quiz reviews, and office hours
 - Created lesson plans for CS 199 “Even More Practice” sessions and held weekly practice sessions with students
- Software Engineering Intern | Capital One | Richmond, Virginia** June 2021 – August 2021
- Collaborated in team of four interns to build customer facing platform for the card payment fraud line of business
 - Integrated internal and external API calls to deliver custom product within a 3-month time frame
 - Deployed final product in cloud environment and demoed product to senior leaders and management
- Data Analyst II | Data Analyst | GEODIS | Brentwood, TN** August 2019 – August 2021
- Implemented machine learning models using Python to analyze customer data and provide insights to operations leaders
 - Utilized Keras to conduct proof of concept that predicted inventory failure points based on SKU data and reduced costs associated with inventory control by \$1.5 million
 - Built time-series models using Facebook Prophet to improve warehouse forecasting by 22% compared to existing models
- Data Science Intern | GEODIS | Brentwood, TN** January 2019 – August 2019
- Integrated Airflow and MLflow into testing and production environments to create stable workflows and measure model performance metrics
 - Evaluated cloud technologies and communicated results and conclusions to senior executives and decision makers
- Intern | Vanderbilt University Institute of Imaging Science | Nashville, TN** February 2017 – June 2018
- Integrated an image processing toolbox in MATLAB to analyze fMRI images to determine language lateralization in epilepsy patients using non-invasive methods
 - Publication:** A. Ashokan, V. L. Morgan*, Vanderbilt University, TN “Resting Function Connectivity Across a Language Network Not Related to Task Based Language Laterality Index”, The International Society for Magnetic Resonance in Medicine (ISMRM), ISMRM-ESMRMB, Paris, June 2018.
- Intern | Vanderbilt University Medical Center (VUMC) | Nashville, TN** June 2015 – July 2015, June 2016 – July 2016
- Modelled cost effectiveness of genotyping patients prior to administering drugs with hypersensitivity risks
 - Presented and published results at American Medical Informatics Association (AMIA) Fall Symposium
 - Publication:** Ashokan, J. F. Peterson, Vanderbilt University, TN “Preemptive HLA Genotyping of HIV Patients for Personalized Medicine”, American Medical Informatics Association (AMIA) Fall Symposium, Washington D.C., November 2014.

PROJECT HIGHLIGHTS

- Exploring the Senses and Emotions and Their Interconnections Throughout Literary Periods** August 2021 – Present
- Explored sensory blending in fiction literature across various literary periods using word and phrase-level embeddings
 - To be presented at the Society for Affective Sciences (SAS) conference in March 2022
- Machine Learning and Deep Learning Models to Predict Stroke Risk** January 2019 – May 2019
- Collaborated with team to identify stroke patients using nontraditional methods and longitudinal medical health records
 - Developed machine learning algorithms in Python with accuracy of 72.4% and a false negative rate of 59.0% and authored research paper analyzing each model’s metrics following IEEE guidelines

TECHNICAL SKILLS

Software Languages and Version Control: Python, Java, Kotlin, SQL, C++, HTML/CSS, Git
Machine Learning Tools and Libraries: Apache Airflow, MLflow, Facebook Prophet, scikit-learn