

FAREED FARAG

COMPUTER SCIENCE GRADUATE

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EDUCATION

Arkansas State University

MS, Computer Science — Emphasis in Data Science

June, 2022 – Present

Jonesboro, AR

- Thesis topic: Nitrogen Recommender System — Utilizing remote sensing in detecting nitrogen deficiencies
- Supervisors: Dr. Ahmed Hashem & Dr. Emily Bellis
- Anticipated graduation: May, 2024

Arkansas State University

BS, Computer Science

May, 2022

Jonesboro, AR

- Summa Cum Laude | 4.0 GPA
- Recipient of Roy H. Jolly Rotary Scholarship
- Chancellors List | 2018 – 2022

WORK EXPERIENCE

Arkansas State University, College of Agriculture

Graduate Research Assistant

May 2020 – Present

Jonesboro, AR

- Stitched multispectral and thermal fields imagery using Pix4dMapper
- Analyzed and extracted data using ArcGIS Pro
- Performed regression and variance analysis
- Managed/Maintained/Backed-up big data
- Developed un/supervised Machine Learning models for regression/classification tasks
- Worked with multiple Machine Learning algorithms including XGBoost, SVMs, and K-Means
- Utilized R/Python in data analysis and visualization
- Programmed Python batch scripts for task automation
- Trained new hires on stitching/data analysis and extraction techniques
- Aided in research papers by providing analyzed/visualized data

PUBLICATIONS

Conference Presentation

- Hashem, A. A., Morris, M., Bellis, E., **Farag, F.**, Huggins, T., Edwards, J., Reba, M. L., and McClung, A. (2022). Rice Yield Prediction Using Unmanned Aircraft Systems. Oral presentation at the Cotton & Rice annual meeting, Jonesboro, Arkansas.

PROJECTS

Crypto Predictor

- Built a responsive web application using Express.js framework that allows users to predict crypto prices
- Developed a hypertuned XGBoost model for price predictions
- Web scraped trending tweets for the selected coin

Learning Management System

- Built a responsive and secure web application using Express.js framework that provides a secure learning system for admin/student interactions
- Implemented role-based access control (admin/student/tutor)
- Applied MVC software design pattern to facilitate maintenance

TECHNICAL SKILLS

App Development

- JavaScript (Vanilla)
- C++
- HTML – CSS
- Express.js Framework

Data Science

- Python
- R
- Microsoft Excel

Database

- PostgreSQL
- MySQL
- SQLite

GIS

- ArcGIS Pro
- Pix4dMapper