

# AAIRA BAGGA

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## EDUCATION

### University of Illinois at Urbana-Champaign

Major: B.S. Computer Engineering

Minor: The Hoeft Technology and Management Program

Champaign, IL

Class of May 2022

## PROFESSIONAL EXPERIENCE

### Panasonic

Machine Learning Intern

Champaign, IL

Jun 2020 - Present

- Analyzed 2M+ pick-and-place machine records to identify trends in machine failures by performing time-series analysis, feature engineering, and deriving metadata relationships
- Improved performance metrics (MCC, Kappa, ROC, F1) of predictive model by 80% through oversampling methods (SMOTE, ADASYN, Random) to increase instances of minority class in client dataset
- Trained random forest and XGBoost models on client data and compared accuracy of identifying machine failures to improve error and issue management process

### Deloitte

GTS Technology Management & Enablement Intern

Champaign, IL

Jul 2020

- Won 3<sup>rd</sup> place in Innovation Project with a team of 6 by prototyping a creative solution that helps struggling minority-owned small businesses during COVID-19 to promote long-term growth and sustainability
- Created wireframes for an online platform that connects consumers to local, small businesses while also providing access to professional training for struggling businesses

### Illinois Business Consulting

Senior Manager

Champaign, IL

Sep 2018 - Present

- Partnered with three different clients in the Supply Chain, FinTech, and AI/ML industries to build/ideate technology solutions by leveraging data, market trends, and industry research to optimize client internal operations
- Led 3 Project Managers and 21 team members in analyzing client challenges, effectively establishing project scope, while overseeing and developing weekly workstreams, deliverables, and presentations

### Third Eye Gen. Inc

Software Engineer

Princeton, NJ

Jun-Aug 2019

- Developed an app store application and designed user interface for the world's smallest Mixed Reality smart glasses
- Enhanced ERP software module that improves/monitors employee performance and efficiency for a Fortune 500 client
- Implemented a location and count verification software solution to minimize quality errors and costs

### Cooper Union

Team Lead

New York, NY

Jul-Aug 2017

- Engaged in research on echolocation technology with Prof. G. Peris-Fajarnés and worked with CAD, Arduino, 3D-printing
- Built and filed provisional patent for an ultrasound ranging device for the visually impaired

## LEADERSHIP & ACTIVITIES

### Phi Gamma Nu Professional Business Fraternity

Professional Committee Member

Champaign, IL

Jan 2019 - Present

- Admitted as 1 of 20 students out of over 400 applicants through three rounds of a competitive interview process
- Participated in and planned multiple professional events hosted by the fraternity to enhance my professional development

### Corporate Case Competitions | PwC, Deloitte

Team Lead

Champaign, IL

Feb/Oct 2019

- PwC: Proposed an innovative strategy to enter a new market by partnering with Tech Giants to sell small home appliances
- Deloitte: Placed 1<sup>st</sup> for recommending a go-to market strategy for a company expanding into explorative tech. industry

## OTHER DISTINCTIONS

**Technical Skills:** Machine Learning, Data Analytics, Java, Python, Kotlin, Android OS, C, C++, CAD, MATLAB, Project Management

**Interests:** Health & Fitness, Travel, Soccer, Standup Comedy, Cooking