

# Rahul Rajaram

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## EDUCATION

**Ohio State University - Columbus**

**Expected Graduation: December 2025**

*Bachelor's, Computer Science & Engineering with Minor in Statistics*

GPA: 3.98/4

## SKILLS

**Languages:** Python, R, Java, JavaScript, C#, C, SQL(Postgres and MS), x86-64, Git

**Technologies:** Data Science and Machine Learning with **sk-learn/Tensorflow**, Generative AI with LangChain, Data Analysis with **Pandas/Numpy**, Data Visualization with **Plotly, Matplotlib, Tableau, Superset**, AWS Cloud Services, REST APIs, Containerization with Docker, Graphic Design with Figma and Canva

## PROFESSIONAL EXPERIENCE

**Department of Electrical and Computer Engineering, Ohio State University**

**Columbus, Ohio, USA**

*Student Research Assistant*

Jan '25 - Present

- Training machine learning models to detect spoken words from powerline transmission data
- Utilized creative feature engineering techniques and XGBoost Decision Tree classifiers to achieve a classification accuracy of **double** the previous standard accuracy

**Rovisys**

**Aurora, Ohio, USA**

*Software Co-Op*

May '24 - Aug '24

- Provided technical support and added scrap analysis features using C# to a Manufacturing Excellence System for a large chemical manufacturing company
- Created dashboards using SQL to provide easy to read charts and KPIs regarding manufacturing performance at two large manufacturing plants
- Collaborated on an internal GPT project which allowed employees to quickly understand contract documents using Microsoft Azure OpenAI

## PROJECTS

**Campaign Pledge Calculator**

- Provided 150 international, nonprofit franchises targets for a gift giving campaign, leading to a predicted **23%** increase in campaign performance, by creating an accessible Python tool which contained graphs and metrics describing each franchise's past performance and future projections
- Enabled nontechnical individuals to easily share information by adding a PDF export feature which includes all graphs and metrics

**Solar Finance Analysis**

- Used Python's SDV Library to generate synthetic data based on weather, climate, economic, and solar energy conditions of 20 major US cities
- Implemented multicollinearity testing to identify which features should be used in model training
- Performed a Gridsearch and Cross Validation to tune hyperparameters of a Random Forest Regression Model
- Estimates were only on average **15.11%** from their actual values

**Buffer KPI Analytics**

- Collected key business performance metrics, demand factors, and economic indicators for Buffer.com, a startup focused on social media management
- Trained a Linear Regression model with and average error of **3.1%**
- Used **gradio** and Python's SDV library to create a business simulator, allowing for business leaders to view predicted paid monthly active user growth based on different potential inputs