**ABHIGYAN ACHERJEE**

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**EDUCATION**

University of Cincinnati | Ohio **Class of 2024**

*Master of Science, Bachelor of Science (ACCEND MS+BS) in Computer Science, minor in Economics*

* **GPA:** 3.95/4.0
* **Honors**: Dean’s List, Kautz-Uible Fellow, College of Engineering Scholar, University Honors Scholar

**SKILLS**

* C++
* Python
* Spark
* Linux
* Bash
* MATLAB

* MS Office Suite
* PowerBI
* SQL
* Project Management
* Git
* Azure-Databricks

**PROFESSIONAL EXPERIENCE**

**Analyst | AMEND Consulting, Cincinnati, OH May 2022-Aug 2022**

* Collaborated to create a workflow using PySpark to clean and train models from data sourced from client’s ERP.
* Delivered insights into inventory optimization and reduced downtime by 17% for clients.
* Presented weekly updates and deliverables to CIO and other company executives.
* Trained a model using Sckitlearn’s random forests tag defects in an assembly line with 20% increased accuracy.

**University of Cincinnati Dept. of Physics-CERN Jan 2021-Aug 2021**

* Collaborated with a team from AGH Institute, Krakow to write software for the LHCb experiment in CERN.
* Designed a pipeline for real time data mining and analysis of from an LHCb subdetector-Vetra.
* Programmed an algorithm to handle higher rates of data acquisition due to increased luminosity.
* Created a workflow to simulate results and track outliers based on comparison with run-2 data.

**Research Assistant | Protégé Research Program - CINCI Lab, Cincinnati, OH May 2020-Dec 2020**

* Studied papers on Parkinson’s disease and correlated voice modulation to develop relational understanding.
* Audited research papers, to derive formulae for voice parameters and integrate into a Python script.
* Programmed a Python script to analyze vowel formants and a Bash script to integrate pipeline.
* Designed a file management protocol for the lab and advised on scalability.

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**PROJECTS**

**Improving Optimisation Algorithms in Maximum Likelihood Fits-Senior Design Aug 2022-Apr 2023**

* Investigated the Minuit Algorithm developed by CERN and its behaviors.
* Developed a code suite to test hypotheses and created an optimization strategy to reduce runtime by 38%.
* Presented findings, and secured 1st place in best poster presentations category at CEAS Expo 2023.

**Webex Version Classifier:** **Feb 2023**

* Designed a Webex model classifier using a bag of words vectorizer and trained a knn model to train the data with 66 percent accuracy.

**Home Price Predictor: Nov 2022**

* Created a home price predictor utilizing a random forests model as an add on along with IRR projections for a venture capital project in Queen City Consulting.

**INTERESTS**

Cooking, Yoga, Beatniks, Sustainable Fashion, Bollywood Fusion Dance