

Scott Merchant

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[Github.com/ssmerchant](https://github.com/ssmerchant)

Work Experience

Bolzoni-Auramo

Intern Engineer

Sulligent, AL | May 2019 - August 2019

- Implementation of Manufacturing Execution System (MES) quality control software in product assembly lines.
- Analysis of assembly line data using SQL and Excel to determine usage of MES.
- Integrating MES with inventory database to update number of parts used.
- Gave presentations to assembly workers to instruct them on how to operate the MES software.
- Regular maintenance and testing of power tools in product assembly lines.
- 3D modeling in SketchUp 3D Design software for parts used in various projects.

Projects

COVID Data Analysis

- Prepped CDC data using SQL to display COVID rates by state using PivotTables in Excel.
- Data imported to Tableau to create interactive visualizations.
- Used data to determine vaccine effectiveness.

Netflix Original Films Analysis

- Used Netflix data to determine most popular release times and distribution of IMDB scores within a given genre.
- Created dashboards in Tableau to analyze and present data.
- Used Python to find correlation of IMDB scores with other variables.

Vacation Decision Tree

- Decision tree model used to determine popular vacation destinations based on preference and budget.

iFixit Project

- Worked in a group of four to create an online step-by-step guide on how repair an electronic device.
- Disassembled laptop components and photographed the process.

Education

B.S. Mathematical Statistics

University of Alabama

Tuscaloosa, AL | 2017-2022

Minor: Computing Technology & Applications

Relevant Coursework

- Mathematical Statistics
- Python Programming
- Statistical Data Analysis
- Computerized Database Systems
- Advanced Excel
- Linear Algebra
- Stochastic Processes
- Technical Writing

Skills

- Python (pandas, NumPy, Matplotlib, PyTorch, BeautifulSoup)
- SQL
- HTML
- Microsoft Excel (Macros, VLOOKUP, PivotTables)
- Data Visualization (Tableau, PowerBI, Excel)