Abdel Balla

Data Analyst | Business Intelligence | Software Engineer

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TECHNICAL SKILLS

Programming: Python, Data Structures, Algorithms, NumPy, Pandas, SciPy, Scikit-Learn, TensorFlow, Keras, Regex, SpaCy
Development: VS Code, Git, Jupyter, Excel, Tableau, Plotly, PostgreSQL, MongoDB, SQLite, Docker, Streamlit, Flask, Heroku
Skills: SQL querying, Data mining & pre-processing, Exploratory data analysis, Python ETL, A/B testing, Predictive modeling - regression analysis & classification, database management, REST APIs, data visualization

PROJECTS

Song Suggester App, *Individual Project*   GitHub | App
- Developed a Python web app that recommends songs based on an audio features analysis of over 1 million songs
- Gathered music data using the Spotify API, performing the relevant data wrangling and cleaning using Pandas & Numpy, and storing in a non-relational MongoDB database
- Coded the backend with necessary routing, programmatically rendering model outputs in HTML
- Generated data visualizations with Chart.js to highlight similarities and differences between song recommendations

Airbnb Price Optimizer App, *Project Team Lead*   GitHub | App
- Built and deployed a Flask web app to determine an appropriate nightly rate for prospective Airbnb hosts
- Used NLP techniques within the spaCy library to parse and quantify Airbnb listing text for model training
- Designed and tuned a neural network regressor using Keras and TensorFlow to generate price estimates
- Serialized the Keras model with pickle to save on computational memory and reduce runtime

Underdog Devs, *Data Engineering Volunteer*
- Consulted with the stakeholder of a non-profit to devise feasible backend implementations of novel feature ideas
- Maintained a non-relational database with an evolving schema, reseeding with mock data to allow for feature testing

EXPERIENCE

Aloba SF Inc, *Davis, CA - Data Entry Clerk*   2022
- Composed daily sales reports in Excel tracking the sales, expenditures, and cash flow of 15 T-Mobile stores
- Collected employee time clock data in RealTime to resolve timesheets and calculate wages for payroll in Quickbooks
- Assisted the Controller with various clerical duties such as consolidating financial statements

T-Mobile, *Fairfield, CA - Sales Representative*   2019 - 2020
- Handled $3k+ in daily transactions, advising playing customers and providing them with hands-on demonstrations
- Managed $50k+ in inventory and orders, ensuring all in-demand products were in stock and ready for sale
- Troubleshot and diagnosed device issues for customers, coming up with individual working solutions
- Consistently met monthly sales goals by remaining up to date on the latest technology and company offerings

Stantec Inc, *Sacramento, CA - Water Resources Intern*   2018 - 2019
- Produced markups in Revu of structural modifications to several water treatment plants in need of renovation
- Drafted water utility maps and street profiles of newly-proposed residential piping for surveyors
- Organized documentation for ongoing water planning projects to lessen the workload of senior engineers

EDUCATION & ACHIEVEMENTS

Bloom Institute of Technology Formerly Lambda School, *Full Time Program, Data Science*   2021 - 2022
Sacramento City College, *Completed coursework towards Mechanical Engineering degree*   2018 - 2020
National Achievement Scholarship Recipient, *National high school academic competition*