Ben Sbanotto

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• https://bsbanotto.github.io/

Data Scientist

Experienced professional with a decade of expertise in data analysis across diverse manufacturing sectors. Consistently achieved 5%+ year-over-year loss reduction through sustainable solutions. Eager to blend my extensive leadership and data analysis experience with technical knowledge for informed decision-making.

WORK EXPERIENCE

Holberton School • Tulsa, OK • 08/2022 - 10/2023
Student Tutor

- Conducted bi-monthly live coding sessions for up to 80 students on upcoming concepts, offering guidance based on lessons and experiences gained through the initial learning of these concepts
- Carried out 10 to 15 hours of weekly ad-hoc tutoring sessions for students helping to debug Bash scripting, the C language, Python, and SQL
- Performed code reviews for milestone projects, ensuring students attained project-relevant skills as intended

Whirlpool • Tulsa, OK • 03/2021 - 04/2022
Senior Analyst, Engineering

- Reduced press line down time from 75 minutes per day to 0 minutes per day by implementing light weight, modular robot end of arm tooling
- Led a team 15 people on the plant Focused Improvement team, delivering an increase in workforce engagement from 11% to 30% in 10 months
- Designed and implemented a novel coil keeper arm system, enhancing safety by minimizing the risk of steel coils falling off lifts and ensuring a standardized coil offset for changeovers

Carlisle Brake And Friction • Tulsa, OK • 06/2011 - 12/2018
Engineering Manager

- Directed a team of 10 Process Engineers in a manufacturing plant throughout a 2-year plant closure project, ensuring a 95% on-time delivery to customers while achieving annual savings of $750,000
- Attained a 10% reduction in monthly variable cost accruals through analysis of financial and manufacturing data, identifying misclassified costs, resulting in a 25% reduction in the time required to pinpoint improvement projects
- Served as a Site Subject Matter Expert and contributed to a global team responsible for the launch of a cloud-based software for global product lifecycle management
- Implemented a solution to maintain production continuity after relocating essential machinery to a sister plant, mitigating potential revenue loss of $2 million

EDUCATION

Diploma In Computer Science And Machine Learning
Holberton School, Tulsa • 12/2023

20 month software engineering school where students learn through peer and project-based learning

B.S. Mechanical Engineering

Arkansas Tech University • 05/2010

A.S. Nuclear Technology

Arkansas Tech University • 05/2010

PROJECTS

FamilyCircle

Holberton School, Tulsa • 11/2023 - 12/2023

Project Repo: https://github.com/Family-Circle-capstone/family-circle-capstone/tree/main

Technologies: Vue.js, Vit.js, JavaScript, TailwindCSS, Figma, AWS, Twilio

- Developed a video calling web application with an intuitive and accessible user interface
- Integrated voice command functionality by utilizing the Web Speech API in JavaScript
- Applied Scrum framework for effective project management, breaking down tasks into manageable segments to optimize workflow

GitHub Year in Review

10/2023 - 11/2023

Project Repo: https://github.com/bsbanotto/GitHub_year_in_review

Technologies: Python, Hugging Face, Matplotlib

- Utilized the Python Requests library, query all of a users commit messages for the current calendar year
- Provide users a graphical summary of their usage statistics and insights to share with friends and colleagues

Bayesian Optimization

06/2023 - 06/2023

Project Repo: https://github.com/bsbanotto/hyperparameter_tuning

Technologies: Python, Jupyter Notebook, GpyOpt, Keras, TensorFlow

- Utilized Bayesian Optimization to fine tune a DenseNet-121 model for image classification on the imagenet dataset
- Improved validation accuracy on model by 10.5%

Object Detection - YOLO V3

04/2023 - 04/2023

Project Repo: https://github.com/bsbanotto/object_detection

Technologies: Python, Tensorflow, CV2, Jupyter Notebook

- Created a custom implementation of YOLO V3 algorithm trained on the COCO dataset to detect objects in selected photographs
- Built bounding boxes to display confidences around identified objects

SKILLS

Languages: Python, Jupyter, SQL, MySQL, SQLite, SQLAlchemy, Git, Linux, Bash, CSS, HTML, JavaScript

Libraries: Keras, TensorFlow, MLflow, pandas, Matplotlib, NumPy, OpenCV, Anaconda, Minitab

Artificial Intelligence: Deep Learning, Hyperparameter Tuning, Object Detection, Reinforcement Learning, Computer Vision, Supervised Learning, Unsupervised Learning, Transfer Learning

Professional: Six Sigma Green Belt, Employee Engagement, Engineering Project Management, Root Cause Analysis, Process Improvement