|  |  |
| --- | --- |
| Evelyn Ding, Ph.D. | Bellaire, TX ▪ 281-818-8678  dingyihang2000@hotmail.com  www.linkedin.com/in/evelyn-ding-phd |
| **Bioinformatic Data/Computational Scientist** |

Innovative data scientist adept at conducting in-depth analysis and research to identify and resolve inefficiencies in distinct applications, data models, analytical operations, and business intelligence solutions. Data-driven professional capable of generating, maintaining, and enhancing innovative statistics models and machine learning programs while delivering actionable insights, metrics, and statistics that optimize processes, data models, objectives, and efficiency.

**Technical Proficiencies**

|  |  |
| --- | --- |
| **Languages:** | Python|Bash|R|MATLAB|SQL |
| **Data Science:** | Pandas|NumPy|Scikit-Learn|Seaborn|SciPy|TensorFlow|A/B Testing|Probability|Distribution|EM| Random Forest|SVM, Classifier|Regression|Clustering|Neural Networks|Deep Learning|Natural Language Processing (NLP) |
| **Tools:** | Matplotlib|SPSS|GitHub|Git|MySQL|Oracle SQL|PostgreSQL|Microsoft Office Suite|Power BI|Tableau |

**Education**

**Doctor of Electrical Engineering**University of Sheffield, Sheffield, United Kingdom ▪ Overseas Research Scholarship

**Bachelor of Science in Electrical Engineering**University of Science and Technology, Beijing, China ▪ Deans Medal

**Professional Experience**

**Heristar – Houston, Texas** 2020 to Present

**Bioinformatic Data Scientist**

Execute comprehensive analysis on intricate datasets to generate insightful business logic statistics models and optimize existing business solutions for noninvasive SNP gene detection. Apply advanced machine learning and data engineering methods to highlight abnormalities, refine model parameters, and produce actionable recommendations.

* Automated the building, deployment, and visualization of models by utilizing Python to deliver data-driven predictions.
* Improved accuracy of a fetus abnormality model by employing Python, Hidden Markov, and EM algorithms to evaluate over 2000 sequencing pregnancy and fetus records, identify abnormal chromosomes, and compare biological data.

**ExxonMobil – Baytown, Texas** 2019 to 2020

**Application Software Engineer**

Constructed, implemented, maintained, and continuously deployed tactical data models, applications, and programs that fostered increased efficiency and realigned operations with company objectives. Interfaced with users of all skill levels to instill training and provide technical support for all chemical production software systems and applications.

* Enhanced cooling efficiency for multistage reactors and accumulated over $5M in annual raw material savings through the creation, deployment, and modification of optimization and multivariable models.
* Heightened analytical efficiency by reducing process from six hours to ten minutes through the development of two innovative tools that enabled optimized flare monitoring for different environmental requirements.

**Dow Chemical – Houston, Texas** 2018 to 2019

**Advanced Process Control Software Engineer**

Conducted detailed evaluations on production software to identify inefficiencies and coordinate the planning, engineering, and implementation of core advanced automation solutions. Crafted and maintained advanced multivariable improvement models while operating as subject matter expert for the main technology centers of two key business units. Fostered corporate compliance by navigating comprehensive safety programs.

* Delivered a $20M boost to annual production after executing detailed analysis on existing models to locate areas in need of improvement, integrate solutions, and generate two new ground-breaking optimization models.

**ENGlobal – Houston, Texas** 2018 to 2018

**Chief Automation Engineer**

Collaborated with multifaceted partners to orchestrate a wide range of complex projects focused on automation and efficiency, coordinating budgets, proposals, and estimations. Performed comprehensive analysis on existing data models, tools, and applications to highlight inefficiencies and present effective, data-driven solutions.

* Spearheaded the design model of an MCC Building Electrical System for Exxon Pipeline Company in San Antonio.
* Increased efficiency for Sasol Green Bayou after navigating a key DCS migration revamp project.
* Promoted strategic decision making by planning and presenting a CEMS Analyzer Package for P66 Alliance Refinery.
* Supported the automation of cross platform implementation for Rockwell, Emerson, and Honeywell by coordinating an extensive DCS Automation System Cross Platform Comparison research and analysis study.

**Technip – Houston, Texas** 2013 to 2018

**Senior Control Systems and Telecommunication Engineer**

Navigated staff through each stage of the engineering process from initial planning and conception through design and delivery for a diverse variety of product concepts. Engaged with clients and third-party vendors to supply technical support and troubleshooting while fostering cohesive project life cycles. Built detailed engineering design specifications and leveraged advanced analytics to produce data-driven project estimates, insights, and proposals.

* Directed the strategic design of several system proposals for clients including a USGC Petrochemical development for Chevron Phillips Chemical and an EO/EG venture for Sasol.
* Engineered the front-end design of numerous client projects worth over $1B such as a Methanol initiative for Northwest Innovation Works and a Lake Charles LNG project with BG.

**Additional Experience**

**Foster Wheeler – Controls, Instruments, and Electrical Engineer – Houston, Texas**

**Corporate Prediction Limited – Financial Technical Developer – Sheffield, United Kingdom**

**Licenses & Certifications**

**Data Science Certificate** – Springboard Data Science Bootcamp - Pending

**Awards**

**Second Prize,** Nationwide Mathematics Modeling Competition

**Top 10 Students Deans Medal,** School of Information Engineering

**Overseas Research Scholarship Award**, University of Sheffield