

Andy Zheng

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Summary

Data Scientist Consultant with 6+ years in analytics, leveraging advanced machine learning and AI to drive transformative insights. Proficient in Python, SQL, and Azure AI tools, consistently delivering innovative solutions that optimize operations and enhance decision-making across diverse sectors. Committed to pioneering data-driven strategies that propel efficiency and foster impactful results.

Work Experience

Ernst & Young LLP

Senior Technology Consultant | 2021 - Present

- Led data-driven projects for a government health agency, leveraging advanced analytics to improve patient care quality and delivery and reduce overhead operational costs.
- Developed predictive models that cut operational costs and optimized resource allocation across hundreds of Military Hospitals, improving staff utilization and patient throughput.
- Created visualization dashboards using ML Forecasting for government leaders, accelerating policy response times by 50%.
- Collaborated with stakeholders across departments to align data priorities, driving successful delivery of 20+ high-impact analytics projects under tight deadlines.
- Conducted in-depth analysis of client data trends, informing strategic recommendations that enhanced operational effectiveness and resource utilization.
- Spearheaded the integration of AI tools into analytics processes, significantly reducing analysis time while increasing the accuracy of insights delivered to stakeholders.
- Leveraged Azure Stack to create LLM Chatbots for clients to organize their data and provide AI guided recommendations

Parkell Inc

Analyst - Regulatory and Compliance Affairs | 2020 - 2021

- Authored 510(k) submissions and Clinical Evaluation Reports, ensuring adherence to FDA and international regulations, and facilitated the transition to EU MDR compliance.
- Developed an analysis workbook system using SQL and NetSuite databases to monitor sales and forecasting, integrating research with feedback monitoring.
- Established a feedback monitoring system to document customer feedback, contributing to future market and sales strategy development.
- Conducted thorough market research to identify regulatory trends, informing strategic initiatives and aligning product development with industry standards.
- Fostered cross-functional collaboration with R&D and marketing teams, ensuring alignment on compliance requirements and enhancing product launch success.

The Estée Lauder Companies Inc

Data Analyst - R&D | 2019 - 2020

- Analyzed clinical patient data, enhancing protocol development and improving predictive analytics using advanced excel analytics and statistical services.
- Conducted patient clinical studies and product testing, boosting data-driven insights and optimizing research publications.
- Modernized data models, streamlining processes and delivering measurable workflow improvements.
- Analyzed patient data trends to enhance research protocols, leading to improved accuracy in clinical outcomes and future study designs.
- Developed comprehensive data models that streamlined reporting processes, resulting in more efficient project timelines and substantial improvements in data accessibility.

Education

Stony Brook University

Bachelor of Engineering, Biomedical Engineering | 2019

Stony Brook University

Bachelor of Science, Applied Math and Statistics | 2019

Skills

Azure AI Certified, Artificial Intelligence (Open AI), Prompt Engineering, SQL, Python, Tableau, Power BI, Data Analysis, Visualization and Integration, Modeling and Forecasting, Machine Learning, Clinical Research Trials, Biomedical Engineering, Regulatory and Compliance of Medical Devices, Knowledge Graphs, OpenAI