

DHARTI PATEL SEAGRAVES

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SUMMARY

As an aspiring Data Scientist with over 10 years of industry experience in statistics, programming, and data analytics, I am currently enhancing my skills through University of Chicago's Master of Science in Applied Data Science. This rigorous training has sharpened my expertise in data manipulation, visualization, and advanced analytical techniques using Python, R, and SQL. Through projects focused on practical scenarios, I have developed a keen ability for effective stakeholder communication and solution-oriented analysis. With this enriched skill set and network, I am eager to develop innovative solutions to tackle real-world problems on a large scale. *Looking for full-time positions starting April 2025 based in Chicago, IL or remote.*

PROFICIENCIES & SKILLS

- **Programming:** Python, R, SQL
- **Data Analysis:** Pandas, NumPy, Matplotlib, Tableau, Power BI
- **Databases:** SQL, PostgreSQL, SQLAlchemy
- **Statistics:** Linear Regression, Logistic Regression, Linear Algebra
- **Machine Learning:** Natural Language Processing, Linear & Non-Linear Models, Data Mining
- **Tools:** JupyterLab, GitHub, ETL
- **Software:** Microsoft Office Suite, Google Suite
- **Big Data:** Familiar with Big Data environments, Spark, Hadoop, MapReduce, Cloud Computing of GCP, AWS Sagemaker

EDUCATION

The University of Chicago | Chicago, IL | MS Applied Data Science
The University of Illinois at Chicago | Chicago, IL | BS Mathematics

Expected Mar 2025
May 2012

SELECT DATA SCIENCE PROJECTS

2016 Olympic Medal Predictions: <https://github.com/dpatel77/Olympic-Medals/blob/master/README.md>

SELECT ANALYTICS EXPERIENCE

INDEED, Inc.

Feb 2022-March 2023

Client Strategy & Insights Analyst

- Managed 17 clients, providing insights on job market trends to enhance hiring quality and efficiency
- Utilized tools like GBQ, iDash, and JupyterLab for data analysis, creating high-quality presentations
- Employed Tableau and Python libraries for clear metric visualization and storytelling
- Presented analytics and market reports to boost revenue
- Led the Retail & Hospitality Champs Program, integrating market insights into client strategies and fostering skill development

NATUS MEDICAL

Nov 2019-Feb 2022

Senior Business Intelligence Analyst

- Developed Power BI dashboards to showcase sales analytics from an Account View, Order Log View, and Transaction History View
- Trained Sales team on the functionality of the Sales Analytics dashboard, including understanding metrics and how to maneuver through the various views and pages
- Generated a Performance Metrics dashboard in Power BI providing analytics including Quota, Opportunities, Quotes to provide managers and senior leadership the visibility to accurately forecast
- Created Key Performance Indicators (KPI) for global markets such as Average Selling Price (ASP) for Neurology, Newborn, and Hearing and Balance
- Evaluated the product revenue and unit sales based on historical review and opportunity management by region and created a product recommendation portfolio

- Used internal and third-party data sources (flat files and web scraping) to identify opportunities for customer engagement and growth
- Developed and automated the above reports using VBA, Python, Pandas, Matplotlib, and other programs
- Presented quarterly utilization, forecast, and performance analytics via data visualization and reporting to staff from senior leadership to sales rep levels

CHICAGO PUBLIC SCHOOLS, Chicago, IL

June 2014-Oct 2019

Enterprise Data Analyst (Dec 2018-Oct 2019)

- Primary subject matter expert for all Illinois State Board of Education (ISBE) enterprise IT projects
- Directly managed workload for two employees (ETL developer and Data Compliance Analyst) by collaborating on projects and creating successful outcomes
- Provided updates to senior management regarding all high-priority submissions related to compliance and funding
- Created a new reject process for all submissions to ISBE SIS using Ab Initio and Google API to provide access and guidance to data owners to be able to read and understand the reject type
- Created a calendar, data dictionary, and ownership documents for each submission for internal and external team members to have an overview of the ISBE roadmap
- Using advanced SQL methods, managed the ISBE database daily for accurate nightly feed, triaged issues with overnight job failures, and suggested operational and maintenance changes for process improvement (i.e. automatic job failure if delta greater than 25%)

Data Analyst (Dec 2016-Dec 2018)

- Executed and completed all 17 mandatory data submissions to the Illinois State Board of Education tied to \$1.6B in revenue to CPS to ensure equitable state funding
- Added 10,332 students to the new evidence-based funding formula with an increase of \$9.6M by leading the data validation, reconciliation, and appeals process for the district
- Identified and collaborated with 6+ departments and stakeholders to allocate work and assign tasks with deadlines to ensure timely submissions
- Translated ISBE submission requirements for technical and non-technical staff to build new reports and refine existing reports
- Reviewed documentation and tested completed code to ensure that CPS meets State mandated compliance to receive adequate funding
- Founded the Charter Data Club to fulfill the State's requirement for student level data at Charter Schools through clearly communicated expectations, responsibilities, and deadlines for all 122 Charter, Option, Alternative Learning Opportunities Program (ALOP), and SAFE schools to meet the State's data compliance expectations

Budget Analyst II (Sept 2016-Dec 2016)

- Developed the five-year Capital budget plan (\$580M) through identification of building needs, allocation of external funding and implementation of technological investments
- Serve as an advisor for long and short-term Capital projects with external and internal budget goals to meet political deadlines with the resources available
- Monitor capital project expenditures to ensure compliance with budget; conduct amendments and transfer of funds as necessary
- Created and monitored analysis of real-time capital budgets using expenditures, revenue, and tax-levy to create a realistic understanding of the district's financial position

Budget Analyst I (June 2014-Aug 2016)

- Refined department budget (\$816M) formulation for multiple departments including ITS, Finance and Procurement
- Performed various cost analysis of personnel and non-personnel effectiveness of multiple ITS teams using Oracle's Enterprise Financial management
- Review pricing scenarios and validate cost savings analysis compared to prior contracts, prior year spend, and budgets
- Lead aspects of the \$816M department budget formulation including departments such as Information & Technology Services (\$75M), Finance (\$22M), and Procurement (\$2.3M) with the aim to challenge the prior year's budget while satisfying programmatic goals