

KUNDAN KUMAR

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EDUCATION

Wayne State University, Detroit, MI

Dec 2024

Master of Science (M.S.) - Data Science and Business Analytics

Relevant Coursework: Data Science & Analytics, Computing Platform for Data Science, Machine Learning, Deep Learning, Statistical Learning for Data Science, Decision Analysis & Simulation, Data Mining, Operations Research

WORK EXPERIENCE

Henry Ford Health, Detroit, MI, USA

Analyst – Experience Analytics

Feb 2025 - Current

- Deployed advanced **SQL** techniques to retrieve and shape data solutions from **Data Warehousing (Azure)**, ensuring precise analytics; accelerated data extraction by 35% and improved dataset relevancy by 25%.
- Analyzed healthcare satisfaction data from **Press Ganey**, delivering insights that helped clinicians and physicians implement changes resulting in a 22% improvement in patient feedback scores.
- Created and launched interactive healthcare dashboards in **Power BI**, revealing trends and key performance metrics that boosted decision-making efficiency by 40% and reduced report generation time by 60%.

Intern/Co-Op Student, CX Insights & Analytics

May 2024 – Feb 2025

- Validated the Experience Performance Scorecard (EPS) dashboard on Press Ganey, conducted **data analytics** using **Python** on **Azure Data Studio** on key performance indicators (KPIs), and implemented strategies that increased KPI percentages by approximately 10%, enhancing Ambulatory patient journey tracking.
- Engineered and optimized surveys and data-driven dashboards via Press Ganey Forsta Foundation, enhancing productivity by 28% in the **Remote Monitoring** and **CADD Learner** departments and reducing task completion time by 15%.
- Conducted performance analysis of healthcare providers using Press Ganey data and analyzed patient data on **EMR (Electronic Medical Record)** reports in **Epic Systems**.
- Ensured accuracy, thoroughness, and **attention to detail** in all data analysis tasks.
- Demonstrated active listening and provided constructive feedback to team members.

IndustryX, Detroit, MI, USA

May 2024 – Jul 2024

Data Science in Robotics (Academic Practicum Internship)

Project: Automated Disassembly Process Planning with Vision and AI

- **Fastener Identification using Machine Learning:**
 - Developed **Machine Learning** solutions to detect fasteners in visual data with 94% accuracy, improving inventory management and lowering identification errors by 25%.
 - Fine-tuned pre-trained YOLOv8 models using **Python**, achieving 95% accuracy in fastener detection and reducing manual inspection time by 60%, boosting overall operational efficiency.
 - Conducted comprehensive model testing in Nvidia's ISAAC SIM, identifying and rectifying 15 critical performance issues, improving simulation fidelity by 35%.
- **3D Geometry Capture via Camera/LIDAR:**
 - Implemented robot-mounted camera and LIDAR-based scanning systems to capture detailed 3D part geometry, leveraging ISAAC SIM for realistic simulation scenarios.
 - Conducted development and testing in a virtual environment, leveraging ISAAC SIM for realistic simulation scenarios.

Eve Healthcare Centers Private Limited, U.P, India

Jun 2022 - Dec 2022

Machine Learning Intern

- Collaborated with ~4 national cross-functional teams to develop innovative product solutions for Eve Healthcare Centers, utilizing **Machine Learning** methodologies to deliver data-driven insights for +50k customers.
- Scaled a Channel Preference ML Model building to analyze customer reaction towards offers from different channels. Optimized this model from 25 hrs to 5 hrs (80% reduction) using **Azure** and **Kubernetes** friendly practices.
- Showcased attention to detail and timeliness in all project deliveries.

Data Scientist

- Designed and migrated a scalable Field Reporting Solution for ~500 Sales Representatives from AWS Cloud Services to Microsoft Cloud Services, saving client costs by 10%.
- Validated data, conducted **data mapping**, and modeled diverse features for AI/ML applications; extracted historical data from the **Enterprise Data Warehouse** (EDW) using **AWS Glue** and created hierarchical agent and branch structures with **PySpark**, meeting latency requirements of 1 millisecond.
- Performed data fusion of unstructured data and loaded it into the analytical zone of the Snowflake Database with 80% cleaner data from a 5 TB dataset.
- Excelled in presenting information, conflict resolution, and communication within teams.

PROJECTS

Market Due Diligence and Asset Identification for Pharmaceutical: [\(GitHub\)](#)

Indegene – Analytics Case Study

- Analyzed datasets after data gathering provided by the client and performed additional research using public data sources.
- Identified attractive therapeutic areas (ATC 3) for investment and recommended high-potential and top-priority molecules (ATC 4) for product acquisition.
- Projected the company's revenue growth from 267 million USD in 2018 to 2023, considering a historical CAGR of 5%.

Predictive Analysis and Dynamic Visualization of Chronic Disease Trends in the USA: A Flask-based Application on AWS: [\(GitHub\)](#)

- Led a process flow and thorough **Exploratory Data Analysis (EDA)** on a multifaceted chronic disease dataset, adeptly managing data cleaning processes and extracting insights for trend identification.
- Engineered and deployed a dynamic Flask-based application on AWS, featuring predictive models (Linear Regression, XGBOOST, Random Forest) to forecast alcohol use trends among youth, exemplifying proficiency in analytics and deployment with a measurable impact on public health insights.

TECHNICAL SKILLS

- **Data Analysis Tools and Languages:** Python, C/C++, SQL, R
- **Business Intelligence Tools & Databases:** Statistics, Tableau, PowerBI, Jupyter Notebook, Hadoop, kafka, Spark, Airflow, Microsoft Office, PowerPivot, flask, Snowflake, CI/CD Pipeline, RStudio, Relational Databases (MS SQL Server, Oracle), GGPlot
- **Machine Learning Techniques:** Classification, Regression, Time Series, Anomaly Detection, Decision Trees, Probability networks, Natural Language Processing, Association Rules, Clustering, Neural Networks, Bayesian models, LLMS, GenAI
- **Cloud Competencies:** AWS, GCP, Microsoft Azure

CERTIFICATIONS & ACCOMPLISHMENTS

- **AWS certified Data Engineer Associate DEA-C01, 2024 (Ongoing)**
- **Founder & Director**, IIT SQUARE (Failed Startup), Aug 2017 – Dec 2020
- **Data Visualization with Tableau Specialization by University of California Davis, Coursera 2023**
- **The complete SQL masterclass, by Udemy**
- **The complete Microsoft PowerBI Bootcamp, By Udemy**