

Vigneshwaran Anandan

Data Analyst

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SUMMARY

Results-driven Data Analyst with 5+ years of experience leveraging analytics, machine learning, and business intelligence to drive decision-making in healthcare, finance, and banking. Skilled in **SQL, Python, R**, and **PL/SQL**, leveraging **Azure, AWS**, and **Snowflake** for scalable data solutions. Adept at **predictive modeling, BI**, and **automation**, delivering **20-40% efficiency gains** through advanced analytics. Passionate about **solving business challenges with data-driven strategies** and enhancing decision-making through **visual storytelling and AI-powered insights** with **Power BI, Tableau**, and **ML models**.

EXPERIENCE

Data Analyst – Healthcare & BI, United Healthcare Group | USA

Jan 2024 – Present

- **Optimized** complex healthcare data pipelines using **SQL, Python (Pandas, NumPy)**, and **FHIR/HL7 standards**, increasing **EHR data accuracy by 30%** and reducing **data integration errors**.
- **Designed** interactive **Power BI and Tableau dashboards**, providing **real-time insights into claims adjudication, patient risk scoring, and healthcare expenditures**, leading to **15% faster decision-making for providers**.
- **Automated** data ingestion and transformation workflows using **Azure Data Factory, Databricks, and Synapse Analytics**, reducing **data latency by 40%** and streamlining compliance reporting.
- **Developed predictive models** using **Azure ML (Logistic Regression, Decision Trees)** to forecast **patient readmission risks**, reducing **hospital revisits by 20%**, improving patient care strategies.
- **Translated** complex analytical findings into **actionable recommendations** for clinicians, business leaders, and compliance teams, ensuring alignment with **HIPAA and industry regulations**.

Data Analyst – Financial & Market Intelligence, Relationship Science LLC | India

Mar 2020 – Jul 2022

- **Refined** investment data strategies using **AWS Redshift and SQL**, leading to **faster trend analysis** and a **20% improvement in portfolio performance predictions**.
- **Applied** machine learning models (**Random Forest, Logistic Regression**) for **investor segmentation**, leading to a **25% increase in high-value client acquisitions** and improving **customer targeting strategies**.
- **Automated** financial data integration pipelines via **AWS Glue and Apache NiFi**, cutting **data processing time by 40%** and enabling **real-time risk assessment**.
- **Designed** Tableau dashboards that visualized **financial networks**, uncovering **new investment opportunities and risk exposure**, contributing to **data-driven revenue growth strategies**.
- **Collaborated** with cross-functional teams, aligning **data-driven insights** with revenue growth and improving **investment risk modeling frameworks**.

Data Analyst – Risk & Fraud Analytics, Nucleus Software | India

Jun 2017 – Feb 2020

- **Engineered** high-volume **transactional data models** using **SQL and Snowflake**, reducing **loan processing times by 25%** and enhancing customer experience.
- **Strengthened** fraud detection capabilities by implementing **anomaly detection algorithms** and **unsupervised learning techniques**, reducing **fraudulent transactions by 18%**, saving the company **millions annually**.
- **Optimized** ETL workflows for **loan data synchronization**, reducing **reporting delays** and enabling **real-time financial monitoring**.
- **Developed** Power BI dashboards that **automated financial risk reporting**, reducing **manual workload by 50%** and improving decision-making efficiency.
- **Refined** risk evaluation models, increasing **loan approval efficiency by 12%**, resulting in **faster loan disbursement and reduced customer churn**.

SKILLS

Data Analysis & Statistical Methods: EDA, Data Cleaning, Data Wrangling, Hypothesis Testing, Regression, A/B Testing

Machine Learning & AI: Supervised & Unsupervised Learning, Predictive Modeling, Anomaly Detection, Azure Machine Learning

Programming: SQL, Python, R, PL/SQL

Cloud & Big Data: Azure (Synapse, Data Factory, ML), AWS (Athena, Redshift), Snowflake, Google BigQuery

Data Visualization & BI: Power BI (DAX), Tableau, Looker, QlikView, Matplotlib, Seaborn, Excel (Pivot Tables, VBA)

Databases: MySQL, PostgreSQL, MS SQL Server, Oracle, MongoDB

ETL & Data Engineering: Apache Airflow, Prefect, Data Pipelines, Data Warehousing

Version Control & Collaboration: Git, GitHub, GitLab

EDUCATION

Masters in statistics with Data Science, **California State University | USA**

May 2024