SUBHA VARADARAJAN

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github.com/varsubha

Education

University of Washington Aug 2020 - May 2021
Master of Science in Business Analytics (GPA: 3.99 / 4.00) *Seattle, WA*

Anna University May 2006 - May 2010
*Bachelor of Engineering in Civil Engineering (GPA: 3.97 / 4.00) [**Gold Medalist**]* *Chennai, India*

Technical Skills

Languages: Python, R, SQL, MySQL, SQL Server
Analytics & Visualization: Pandas, NumPy, Seaborn, Matplotlib, Excel, PowerBI, Tableau, QuickSight
Cloud Tools: AWS (Athena, S3, Lambda, Redshift, Glue, OpenSearch, SageMaker), Git, Jupyter, RStudio, Selenium, SSMS, Azure Data Studio
Data Ops: ETL pipelines, partition projection, infrastructure cost analysis, dashboard automation

Experience

Amazon Sept 2022 – Present
***Senior Business Intelligence Engineer**, North America Capacity Planning* *Seattle, WA*

- **Designed and deployed end-to-end ETL pipelines using Python, Redshift, and AWS (Lambda, S3, Athena)** to automate inventory and demand forecasting processes—reducing manual processing time from **13 days to under 3 minutes** and saving **24 hours/week** in analyst effort.
- **Developed and productionized forecasting models for inventory demand**, contributing to a **30% reduction** in holding costs and fewer stockouts, while partnering with TPMs to launch KPIs for time-sensitive workflows like **'Fair Clock to Promise Date'**.
- **Led the architecture and migration of executive business reviews (DBR, WBR, OBR)** from Excel to Amazon QuickSight, improving reporting scalability and data integrity for **$27.8B+ in enterprise savings initiatives**, including Bricks Prioritization and Excess Obsolete Inventory.
- **Built dynamic dashboards and reporting pipelines in QuickSight**, replacing manual CSV processes and enabling real-time visibility into inventory metrics—streamlining operational decisions and reducing data refresh time by over **90%.**
- **Executed A/B testing on a bin-placement UI for fulfillment centers**, replacing free-text fields with dropdowns and validations, resulting in **inventory placement accuracy improvement from 48% to 92%** and a significant drop in audit failures.
- **Performed associate-level sortation cost analysis**, optimizing placement logic that drove **$1.9M/month in cost savings**, and built a GenAI-powered chatbot to trace datacenter rack behavior, earning **top-3 placement in a company-wide hackathon.**

Electronic Arts Sept 2021 – Sept 2022
***Senior Data Analyst**, Infrastructure Utilization* *Seattle, WA*

- **Executed exploratory data analysis (EDA) on terabytes of gaming infrastructure data** and developed automated Looker dashboards to monitor **$225M+ in quarterly spend** across **200+ gaming titles**, driving transparency and performance tracking at the SLT level.
- **Built and deployed machine learning ensemble models** to predict cloud infrastructure costs with **89% accuracy**, enabling data-driven forecasting and driving strategic **retirement of underutilized services**, leading to infrastructure efficiency gains.