

Yatharth Sood

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EXPERIENCE

Cisco Systems, Inc.

Bengaluru (Remote)

Data Analyst, BI Platforms Team, Global Supply Chain

2022-Present

- Built and deployed a Python Flask RESTful API on Google Cloud Run, processing Snowflake data through SQL extraction and pandas transformation pipelines to serve a React frontend — replacing 20+ Tableau and ThoughtSpot dashboards and saving \$100K+ in licensing and development costs, with sole end-to-end ownership from backend architecture to production deployment.
- Implemented Redis caching and Role-Based Access Control (RBAC) as the platform's primary infrastructure owner, supporting 300+ users across multiple teams, enforcing Cisco Data Policy compliance while enabling automated email and Webex alerting with sub-second query performance.
- Engineered Python-based replacements for two Webex bots serving 1,000+ active users each, addressing Oracle DB network restrictions without lengthy legal/IT intervention by deploying Dockerised services on an internal Cisco Linux server — achieving full adoption with zero operational disruption and maintaining backward logging compatibility.
- Designed complex SQL views and transformation logic to normalize malformed source data into reporting-ready schemas, enabling accurate adoption metrics for 15+ NPI supply chain tools and supporting large-scale data migration in collaboration with IT.
- Containerised, deployed, and maintained backend applications on GCP (Docker, Cloud Run, Cloud Functions), eliminating reliance on IT provisioning and enabling rapid, reliable releases.
- Automated manual data pipeline processes in Python, saving 10–15 hours monthly and driving IT independence for adjacent teams, contributing to an additional \$200K+ in cumulative budget savings over three years.

Data Analyst Intern

Feb 2022 – July 2022

- Developed a framework-agnostic Python backend over Snowflake to prove the viability of API-driven data delivery — implemented as a Webex bot for Supply Chain leadership, scaled to 300+ users and 100,000+ queries on Google Cloud Functions at near-zero operational cost.

PROJECTS

F1 Ask | *Go, NLP???*

- F1 Ask is a natural language-based statistics querying engine built in Go. Ask it questions on historical F1 data (e.g. "Who won the most races in the 2006 season?", "Which race had the most laps ever?"), and F1 Ask will process it into a query call and output the data to the user.
- Implemented **jolpica-go (go.pkg link)**, an API Wrapper for Jolpica F1 API (commonly-used REST API for F1 data) to create F1 Ask in Go.
- Remade Jolpica's backend in Go (**Catering**) and self-hosted it to avoid overloading Jolpica's own servers and get better performance in F1 Ask.

Wrapped, Over the Years | *Python for Data, HTML/CSS/JS???*

- Kaggle Notebook, plus static webpage to get your Spotify Wrapped playlists over the years, and then processing that as a dataset for analysing your favourite music over the years, not just the current year.
- Basic data slicing techniques, plus advanced statistical methods to rank songs based on position and numbers of appearances (i.e. longevity). [readmore]
- Static website to view and share generated insights at a glance, and to generate and save Spotify playlists based on criteria filters selectable by the user.

Various Keyboards and Related PCB Projects | *KiCad, basic electronics*

- Forayed into hobbyist PCB design as a way to better engage with my interest in keyboards, modern and vintage.
- Designed a USB-C based IBM Model M keyboard controller, several modern keyboard PCB redesigns and some smaller converter PCBs.

EDUCATION

Manipal Institute of Technology

Bachelor of Technology, Electrical and Electronics Engineering

Manipal, KA

2018-2022