Ruthvik Reddy Sankalamaddy

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EDUCATION

Birla Institute Of Technology & Science, Pilani   Hyderabad, India
BE(Hons.) Computer Science & MSc.(Hons.) Mathematics | **GPA: 3.56/4.0**   Aug. 2018- May. 2023
   ❖   *Merit Scholar*: *Recipient of the Institute Merit Cum Need Scholarship, which waived **80%** of tuition fees for **8 consecutive semesters**.*
Relevant Coursework: Probability & Statistics, Optimization, Operations Research, Machine Learning, Mathematical Modelling

WORK EXPERIENCE

Flipkart (Walmart Subsidiary; India's Largest E-Commerce Company) | Data Engineer 1   *Bangalore, India* | Jan 2023 – Present
- Collaborated with a cross-functional team of product managers and business teams to design and deploy an AI-powered chatbot (Plato AI) leveraging *LLMs, RAG,* and *agentic workflows*, enabling **1,000+** analysts to retrieve data without conventional SQL queries.
- Led a platform-wide upgrade of Flipkart's data-processing tools, shrinking report turnaround by **70%** and **45,000 USD** in cost savings every month. This enabled product and finance leaders to access timely sales and inventory insights, accelerating business decisions.
- Designed and built a scalable Mailer Engine that streams near-real-time sales dashboards during *Big Billion Days* **(India's largest e-commerce sale)**, equipping leaders from all **10** business units of Flipkart to fine-tune pricing and inventory in **under 1 hour**.
- Built an automated query-optimizing tool that tunes inefficient SQL queries fired on the Flipkart Data Platform(FDP), driving monthly cost savings of **15,000 USD** by trimming compute usage, while reducing data retrieval time for business analysts.
- Led a 4-engineer team to revamp Flipkart's preorder data workflow, replacing legacy MapReduce jobs with Spark to reduce processing time by **6hrs** and cut compute spend by **20%**, giving business planning teams faster visibility into preorder demand.

The R.A.D.A.R Institute (Tech & Policy NGO) | Product Manager   *Remote - North Carolina, USA* | Jun. 2024 – Aug. 2024
- Owned the full roadmap for products, in a team of engineers and policy experts to launch **2 MVPs** to support policy making
- Led a team of **5** undergraduates from BITS Pilani in building first-of-their-kind Python-based tools that lets defense planners simulate a military stand-off and test rival strategies, cutting down the set up time of the simulation by **80%**.
- Showcased an innovative decision-making platform to **Japanese Navy officials**, cutting analysis turnaround for strategic exercises from **24 hr to 1hr**, and earning recognition as a pioneering solution in defense planning

Nutanix (Enterprise Cloud Platform) | Member Of Technical Staff Intern   *Bangalore, India* | Aug. 2022 – Dec. 2022
- Led migration of Nutanix's cluster-authentication workflow from Java to Python, cutting deployment errors by **60%** across all customer clusters and strengthening platform security and support efficiency, which in turn accelerated release cycles.
- Automated secure certificate exchange during bootstrap with the Cluster Security team, enabling reliable deployment for **30+** clusters.
- Worked with the product team to build a scalable certificate-exchange layer, enabling containerized deployments across **3** data centers.

UST Global (Digital Transformation Solutions) | Research Intern   *Bangalore, India* | Jun. 2020 – Jul. 2022
- Collaborated with researchers at the Indian Institute of Science (IISc) to refactor their quantum-noise simulator, **doubling** run-time throughput and scaling circuit capacity by **3×**, enabling the simulator to tackle more complex quantum-ML workloads.
- Led a **3**-member team and built a Qiskit-based noise simulator, achieving near-realistic testing of noise in quantum-ML algorithms.

VOLUNTARY WORK

Wilp Gwininitxw (Gitxsan Community) | Product Manager [[GitHub](#)]   *Remote - British Columbia, Canada* | Nov. 2024 – Present
- **Spearheaded the creation** of a revitalization platform for Gitxsan language by defining the product vision and prioritizing features
- **Managing a team** of linguists and software developers, while managing a **1,000 USD** budget to set up platform infrastructure.

ACADEMIC PROJECTS

Intelligent Attribute Based Access Control | Machine Learning, Cyber Security, Python [[GitHub](#)]
- Collaborated with Master's students, for the development of an innovative automated access-management system, adopted by 3 institutional clients for securing their online infrastructure, reducing the time spent in defining the user permissions by **70%**
- Implemented Machine Learning-driven improvements, to boost reliability of data-access permissions from **75%** to **100%**, directly preventing potential security breaches and safeguarding confidential institutional information.
- Led the research team to build a robust workflow optimising the misclassifications, boosting the accuracy across **25** ML models

AWARDS AND ACHIEVEMENTS
- **Ace Alliance Award 2025**, **Flipkart**: Received a **120 USD** cash prize for leading Project Optiflow, enabling Spark SQL as a platform.
- **Value Champion Award 2024, Flipkart**: Received a **120 USD** cash prize for key contributions to developing the AI-powered chatbot
- **High School Scholarship 2016-2018, FIITJEE:** Awarded **4000 USD** merit-based tuition waiver in Junior and Senior years of high school.
- **Inspire Award 2015**, **Government of Telangana, India**: Led the school's science delegation to the Hyderabad District Science Fair; project ranked in **top 10 of 200+** entries and recognized as one of the "Most Innovative" for demonstrating real-world scientific application.

SKILLS
Technical Skills: *Python, SQL, Java, Apache Spark, ETL, Kubernetes, Docker, LangChain, Apache Hive, Google Bigquery, GCP*
Management Skills: *Technical Project/Product Management, Platform Design, Stakeholder Management, Data Analysis*