Ishank Sharma

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SUMMARY

After completing my studies in Bengaluru, India, and gaining 3 years of industry experience at a leading US-based B2B SaaS company, I'm now advancing my expertise with a Master's in Computer Science from CSULB. I'm authorized to work in the USA via CPT/OPT.

EDUCATION

California State University, Long Beach August 2024 - May 2026
Master of Science in Computer Science GPA: 4.0/4.0
Ramaiah Institute of Technology, Bengaluru August 2017 - May 2021
B.E in Information Science and Engineering GPA: 3.75/4.0

TECHNICAL SKILLS

- **Languages**: C, C++, Java, Python, Javascript
- **Libraries**: Spring , Node.js, Flask, Keras, Tensorflow, PyTorch, Scikit Learn
- **Databases and Cloud Technologies**: MYSQL, MongoDB, Redis, Databricks, Snowflake, Firebolt
- **Operating Systems**: Windows, Linux, MacOS
- **Software Types:** SaaS**,** Data Intensive Applications

EXPERIENCE

California State University, Long Beach – College of Business, Long Beach, California
Graduate Research Assistant *(Python, Deep Learning)* February 2025 - Present

- Identifying gaze patterns of the human eye on digital ads, potentially helping companies improve their click through rates and better targeting across demographics and age groups.

CommerceIQ, Bengaluru, India
Software Engineer II *(Python, Java SpringBoot , Databricks, SQL, Snowflake)* February 2021 - August 2024

- **Recommendation System:** Developed a budget recommendation pipeline using SQL with 40 modules running in sequence and parallel, performing extensive data processing on historical data, that predicted advertising spend with 95% accuracy, leading to a $200k reduction in wasted customer ad spend.
- **Designed and implemented** backend data infrastructure for a real-time advertising platform, encompassing data collection, data storage, and data processing of **500,000+ hourly ad data points**, ensuring data integrity and scalability.
- **Cold Start Solution:** Solved the cold start problem by designing a synthetic data strategy that blended sales and ad performance, enabling 90% accurate recommendations for clients without prior **historical advertising data.**
- **Migration from Snowflake to Databricks:** Orchestrated a full migration of the budget prediction feature from Snowflake to Databricks, slashing infrastructure costs by 52% and decreasing latency by **80% using indexing and broadcast joins.**
- **Optimised Data Pipelines:** Reduced Snowflake pipeline costs by **70%** and improved resource allocation and resource optimisation through a strategy of date-specific backfilling, trimming resource use, and eliminating redundant processing, enhancing overall system planning.
- Engineered a custom SQL migration layer using extensible design patterns, streamlining database migration from Snowflake to Firebolt and reducing migration time by **40%.**

Internet Archive, San Francisco, California
Open Source Contributor March 2020 - December 2020

- **Archive.org:** Added keyboard support for zooming in/out on Safari and increased test coverage.
- **OpenLibrary.org:** Enhanced SEO by adding metadata to the index page, improving search visibility and ranking.
- **BookGenomeProject.org:** Developed an XML parser for identifying page types in Internet Archive books and introduced additional stop words for improved text cleanup.

LEADERSHIP

Apostle Incubator: Served as the sole tech consultant for Apostle Incubator, guiding MBA students.
Google Developers Student Club: Help with the day-to-day club activities and manage the club website.

ACADEMIC AND SIDE PROJECTS

- **Retrieval Augmented Generation Implementation AI**
  Constructed a retrieval-augmented generation pipeline utilising LangChain and Python, achieving a 40% reduction in AI hallucination while improving contextual accuracy based on BLEU scores.
- **Hyperparameter Tuning and Experiments with Deep Learning:** Investigated the impact of different activation functions on deep learning model performance and published findings to fix the three biggest causes of inaccurate image classification and gradient vanishing.

ACHIEVEMENTS

- **Winner**: Smart India Hackathon – India's Biggest Hackathon
- **Runner-Up**: Microsoft IncubateIND Hackathon
- **Runner Up:** Reverie Language Hackathon