

Ishank Sharma

Los Angeles, California [Portfolio](#) | [LinkedIn](#) | [Github](#) | Email: ishankdev@gmail.com | Cell: +1 (562)-341-2003

EDUCATION

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

TECHNICAL SKILLS

- **Languages:** C, C++, Java, Python, Javascript
- **Libraries:** SpringBoot, NodeJS, Flask, Keras, Tensorflow, PyTorch, Scikit Learn
- **Databases:** MYSQL, MongoDB, Redis, Databricks, Snowflake, Firebolt (Intermediate)
- **Operating Systems:** Windows, Linux, MacOS

EXPERIENCE

California State University-Long Beach - College of Business, Long Beach, California

- Graduate Research Assistant (Python, Deep Learning)February 2025 - Present
- Re-engineered a low cost eye gaze and face detection application to accurately capture eye movements and response to digital advertisements leveraging my web development and machine learning skills with a gaze accuracy of 95%.

CommercelQ

- Software Engineer II (Python, Java SpringBoot , Databricks, SQL, Snowflake)February 2021 - August 2024
- **Budget Prediction System:** Developed a budget recommendation pipeline using SQL, performing extensive data preprocessing and data cleaning 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:** Executed a novel data synthesis strategy using SQL to blend sales and ad campaign performance data, driving highly relevant product recommendations and bolstering engagement among new users by 22%. This enabled new clients with no historical data to get accurate Ad spend recommendations.
 - **Optimized Data Pipelines:** Reduced Snowflake pipeline costs by 70% and improved resource allocation and resource optimization through a strategy of date-specific backfilling, trimming resource use, and eliminating redundant processing, enhancing overall system planning.
 - **SQL Migration Transformer:** Streamlined database migration from Snowflake to Firebolt, simplifying the transition with a custom SQL migration layer using extensible design patterns.
 - **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.

Internet Archive, San Francisco, California

- Open Source ContributorMar 2020 - Dec 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

Google Developers Student Club, Core Team Member | Web Admin

Help the day to day club activities, mentor juniors, manage the club's website, improve coding culture at college.

Academic Projects

- **Retrieval Augmented Generation Implementation AI**
Constructed a Retrieval Augmented Generation pipeline utilizing LangChain, Python, achieving a 40% reduction in AI hallucination while improving contextual accuracy based on BLEU scores.
- **HyperParameter Tuning and Experiments with Deep Learning:** Explored multiple optimizers. Plotted training and validation loss curves. Identified optimal hyperparameters for best test accuracy of MNIST dataset.

ACHIEVEMENTS

- **Winner, Smart India Hackathon:** Designed an interactive map-based system for police monitoring and deployment with real time alerts sent from user’s phone in case of emergency.
- **Runner-Up, Microsoft IncubateIND Hackathon:** Engineered an innovative women’s safety platform by scraping Instagram posts and comments to extract real-time sentiment data, then leveraging geospatial analytics to dynamically designate locations as safe or unsafe.
- **Honorable Mention CommercelQ AI Hackathon:** Leveraged LLMs to classify product reviews by sentiment, enabling direct competitor comparisons and actionable insights for strategic brand positioning.