Ishank Sharma

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EDUCATION

California State University, Long Beach	Aug 2024 - May 2026
Master of Science in Computer Science	GPA: 4.0/4.0

Key Courses - Advanced Algorithms, Advanced Artificial Intelligence, Advanced Software Engineering

Ramaiah Institute of Technology, Bengaluru	Aug 2017 - May 2021
B.E in Information Science and Engineering	GPA: 3.75/4.0

Key Courses - Algorithms, OS, Data Science, Machine Learning and AI, Databases, Big Data, System Design.

SKILLS

- **Programming:** Python (Advanced), Java (Intermediate), JavaScript (Intermediate)
- **Cloud & Data:** AWS, Databricks, Snowflake, Firebolt
- **Backend Development:** Spring Boot, Node.js, CI/CD Pipelines
- **Databases:** MySQL, MongoDB, RDS
- **Specialties:** AI/ML Pipelines, Scalable ETL Workflows, Data Engineering, Optimization

EXPERIENCE

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

Graduate Research Assistant *(Python, Deep Learning)*   Feb 2024 - Present

- Researching and developing **deep learning-based digital marketing models** to optimize AI-driven advertising strategies.

CommerceIQ , Bengaluru, India

Software Development Engineer II *(AI, Data Engineering)*   Aug 2023 - July 2024

- **Developed an AI-powered budget prediction system**, leveraging historical data and **advanced forecasting models**, increasing accuracy by **35%**.
- **Led Snowflake to Databricks migration**, reducing **infrastructure costs by 52%** and **query latency by 80%** through indexing and broadcast joins.
- Engineered a **cold-start recommendation system** using SQL and AI models, significantly improving advertising strategies for new customers.
- **Optimized real-time campaign data pipelines**, ensuring a 10x performance improvement in ad analytics reporting.

Software Development Engineer I *(Java, Spring Boot, MongoDB, Snowflake, AWS)*   May 2021 - July 2023

- **Built a real-time advertising platform** on AWS, enabling automated bidding and dynamic ad placement across Amazon, Walmart, and Target.
- Designed **high-performance API services** using Spring Boot and MongoDB, improving data retrieval speeds by 45%.

Software Development Engineer Intern *(Firebolt, Snowflake, New Relic, SpringBoot)*   Feb 2021 - May 2021

- **SQL Migration Layer:** Streamlined database migration from Snowflake to Firebolt, simplifying the transition with a custom SQL migration layer.
- **New Relic Dashboard:** Delivered a dashboard for page load metrics, aiding in performance assessments and refining user experience.

Internet Archive, San Francisco, California (Remote)

Open Source Contributor (Volunteer Work)

- **BookGenomeProject.org:** Developed an XML parser for identifying page types in Internet Archive books and introduced stop words for improved text cleanup.

PROJECTS

- **Semantic Data Navigator:** AI-powered NLP tool for intelligent document search using OpenAI embeddings and LangChain.
- **Classification with CNN:** Designed optimized Convolutional Neural Networks (CNNs) for CIFAR-100 dataset.
- **Police Patrol Allocation for NCRB:** Developed a smart patrol allocation system that visualizes hot zones and provides real-time alerts to enhance police responsiveness.

ACHIEVEMENTS

- **Winner, Smart India Hackathon 2020:** Designed an interactive map-based system for police monitoring and deployment.
- **Runner-Up, Microsoft IncubateIND Innovation Series Hackathon:** Created a women's safety solution using voice assistants for real-time distress alerts.
- **Honorable Mention CommerceIQ AI Hackathon**: Leveraged LLMs to classify product reviews by sentiment.

LEADERSHIP & ACTIVITIES

- **Apostle Incubator, CSULB:** Collaborating as a technical contributor with CSULB College of Business Apostle Incubator MBA Students.