

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

- **Languages:** Python (Advanced), Java (Intermediate), Javascript (Intermediate)
- **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
<ul style="list-style-type: none"><li>• Researching and developing <b>deep learning-based digital marketing models</b> to optimize AI-driven advertising strategies.</li><li>• <b>Automated AI training pipelines</b> using Python and cloud-based solutions to enhance efficiency and scalability.</li></ul>	
CommerceIQ , Bengaluru, India	
Software Development Engineer II (AI, Data Engineering)	Aug 2023 - July 2024
<ul style="list-style-type: none"><li>• <b>Developed an AI-powered budget prediction system</b>, leveraging historical data and <b>advanced forecasting models</b>, increasing accuracy by <b>35%..</b></li><li>• <b>Led Snowflake to Databricks migration</b>, reducing <b>infrastructure costs by 52%</b> and <b>query latency by 80%</b> through indexing and broadcast joins.</li><li>• Engineered a <b>cold-start recommendation system</b> using SQL and AI models, significantly improving advertising strategies for new customers.</li><li>• <b>Optimized real-time campaign data pipelines</b>, ensuring a 10x performance improvement in ad analytics reporting.</li></ul>	
Software Development Engineer I (Java, Spring Boot, MongoDB, Snowflake, AWS)	May 2021 - July 2023
<ul style="list-style-type: none"><li>• <b>Built a real-time advertising platform</b> on AWS, enabling automated bidding and dynamic ad placement across Amazon, Walmart, and Target.</li><li>• Designed <b>high-performance API services</b> using Spring Boot and MongoDB, improving data retrieval speeds by 45%.</li></ul>	
Software Development Engineer Intern (Firebolt, Snowflake, New Relic, SpringBoot)	Feb 2021 - May 2021
<ul style="list-style-type: none"><li>• <b>SQL Migration Layer:</b> Streamlined database migration from Snowflake to Firebolt, simplifying the transition with a custom SQL migration layer.</li><li>• <b>New Relic Dashboard:</b> Delivered a dashboard for page load metrics, aiding in performance assessments and refining user experience.</li></ul>	
Internet Archive, San Francisco, California (Remote)	
Open Source Contributor (Volunteer Work)	
<ul style="list-style-type: none"><li>• <b>BookGenomeProject.org:</b> Developed an <u>XML parser</u> for identifying page types in Internet Archive books and <u>introduced</u> stop words for improved text cleanup.</li></ul>	

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.