

# Shriyansh Singh

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## SUMMARY

Empathetic and innovative Machine Learning Engineer dedicated to empowering e-commerce search with creative, scalable algorithms. Passionate about teamwork, diversity, and optimizing user and merchant experiences

## PROFESSIONAL EXPERIENCE

### Machine Learning Engineer Intern

Apr 2024 – Dec 2024

#### Hyphenova AI

Los Angeles, CA

- Architected large-scale search ranking models using Sparse Logistic Regression and Deep & Wide frameworks in TensorFlow, boosting relevance by 20% and CTR by 15%
- Optimized query analysis via mining multi-terabyte user search logs with Python and SQL, improving conversion rates by 12%
- Integrated ML models into production pipelines on AWS and Azure, enabling real-time model updates and reducing latency by 30%
- Collaborated with product and engineering teams to tailor algorithm strategies to merchant business indicators and creative trends, enhancing matching efficiency by 18%

### Machine Learning Engineer Intern

Feb 2023 – May 2024

#### Enterprise Business Technologies Pvt. Ltd

Mumbai, India

- Developed and tuned ensemble models (DSSM, DFFM) on large-scale sparse data to refine search ranking, elevating prediction accuracy by 18%
- Engineered end-to-end ML workflows using TensorFlow, reducing training latency by 30% and enabling scalable model deployment
- Conducted comprehensive A/B testing to validate algorithmic improvements, resulting in a 10% uplift in merchant conversion rates
- Automated feature extraction and model monitoring with Docker, Kubernetes, and CI/CD pipelines, cutting manual intervention by 40%

## EDUCATION

### Indiana University Bloomington

Aug 2023 – May 2025

#### Master of Science in Data Science

Indiana, United States

- Relevant Coursework: Data Visualization, Big Data Applications, Cloud Computing, Graph Analytics, Applied ML, Deep Learning, Computer Vision, Statistics

### University of Mumbai

Aug 2018 – May 2022

#### Bachelor of Engineering in Electronics

Maharashtra, India

## TECHNICAL SKILLS

**Programming Languages:** Python, C++, Shell, SQL

**ML Frameworks:** TensorFlow, MXNet, PyTorch, Keras, Scikit-learn

**Algorithms:** Sparse LR, DFFM, Deep & Wide, DSSM

**Data Engineering:** Apache Spark, Kafka, Hadoop, Azure Data Factory

**Cloud Platforms:** AWS (S3, EC2, SageMaker), Azure, GCP (BigQuery)

**DevOps & Tools:** Docker, Kubernetes, Terraform, CI/CD, Git

**Databases:** PostgreSQL, MySQL, MongoDB, SQL Server

**Visualization:** Tableau, Power BI

## PROJECTS

### E-Commerce Search Optimization Model | Python, TensorFlow, Sparse LR, Deep & Wide

Nov 2023 – Feb 2024

- Devised a scalable search ranking model leveraging Sparse LR and Deep & Wide architectures, elevating relevance by 22% and CTR by 15%
- Incorporated advanced sparse data techniques to fine-tune ranking signals, yielding a 12% increase in conversion rates

### Merchant Query Analysis & Recommendation Engine | Python, SQL, Tableau

Jul 2023 – Oct 2023

- Built a query analysis engine using DSSM to mine user search data, enhancing merchant matching efficiency by 18%
- Automated data extraction and feature engineering from user logs with Python and SQL, reducing processing time by 35%
- Developed interactive Tableau dashboards to deliver personalized recommendations and drive merchant monetization