

Shriyansh Singh

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SUMMARY

Results-driven Applied AI Engineer with proven expertise deploying production-grade AI solutions. Translates research breakthroughs into scalable applications while upholding responsible AI principles and fostering innovation

PROFESSIONAL EXPERIENCE

Machine Learning Intern

April 2024 - Dec 2024

Hyphenova AI

Los Angeles, CA

- Spearheaded design, development, and deployment of an NLP-based content filtering system using Python and TensorFlow, achieving a 30% increase in brand-creator match accuracy and a 15% uplift in user engagement
- Engineered a Random Forest model with iterative feature selection and cross-validation, boosting predictive accuracy by 25% and enhancing campaign performance
- Deployed ML models on AWS SageMaker with real-time analytics dashboards, reducing data processing latency by 40% and accelerating decision cycles
- Optimized Apache Spark-based data pipelines on AWS, tripling throughput for streaming datasets while ensuring data integrity
- Implemented automated monitoring and retraining pipelines that maintained model accuracy within a 2% margin and complied with responsible AI standards

Machine Learning Intern

May 2022 - Oct 2022

Enterprise Business Technologies Pvt Ltd

Mumbai, India

- Developed a customer segmentation model using K-means clustering and PCA to identify four distinct segments, increasing targeted engagement by 20%
- Revamped predictive analytics pipelines by integrating XGBoost on Azure ML, raising forecasting precision by 15% and reducing deployment time by 30%
- Automated data cleaning and feature engineering with Python and Pandas, cutting manual preprocessing effort by 50% and accelerating training cycles by 20%
- Collaborated with cross-functional teams to integrate scalable ML models into production, reducing system downtime by 15% and streamlining operational workflows

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++, Java

Machine Learning & AI: TensorFlow, PyTorch, Scikit-learn, XGBoost, Keras, Hugging Face Transformers, Model Quantization, Responsible AI Implementation

Data Processing & Big Data: Pandas, NumPy, Apache Spark, Dask, PySpark, Hadoop, Kafka

Cloud Platforms: AWS (S3, EC2, Lambda, SageMaker), GCP (AI Platform, BigQuery, Dataflow), Azure (ML, Synapse Analytics)

MLOps & Infrastructure: Docker, Kubernetes, Terraform, MLflow, Apache Airflow, CI/CD Pipelines

Data Storage: MongoDB, Cassandra, Neo4j, SQL Databases, Data Lakes

Version Control & Collaboration: Git, GitHub, Agile/Scrum

PROJECTS

Document Summarization and Keyword Extraction | Hugging Face, Elasticsearch, TensorFlow Aug 2024 – Dec 2024

- Engineered a BERT-based extractive summarization system in Python that improved document retrieval efficiency by 50%
- Constructed a keyword extraction pipeline using SpaCy and NLTK, achieving 85% precision and integrating with Elasticsearch for scalable search capability

Personalized Healthcare Recommendations | Kubernetes, PyTorch, TensorFlow, SHAP Mar 2024 – Jun 2024

- Architected a hybrid recommendation engine leveraging collaborative and content-based filtering, boosting patient treatment adherence by 30%
- Incorporated SHAP-based interpretability to deliver transparent, accountable, and responsible AI-driven healthcare insights