

Shriyansh Singh

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SUMMARY

Innovative Machine Learning Scientist passionate about transforming complex healthcare data into actionable insights through rigorous research, deep learning, and collaborative teamwork

PROFESSIONAL EXPERIENCE

Machine Learning Scientist Intern

Apr 2024 – Dec 2024

Hyphenova AI

Los Angeles, CA

- Pioneered development of deep learning models using TensorFlow and PyTorch on clinical datasets, elevating prediction accuracy by 25%
- Leveraged transfer learning and ensemble strategies to curtail bias and diminish error rates by 20%
- Implemented automated hyperparameter tuning and cross-validation frameworks, expediting model refinement cycles by 30%
- Synthesized real-time performance metrics and custom dashboards to monitor model efficacy and articulate insights to multidisciplinary teams
- Partnered with clinical experts to align model objectives with healthcare payer priorities and regulatory standards

Machine Learning Scientist Intern

Feb 2023 – May 2024

Enterprise Business Technologies Pvt. Ltd

Mumbai, India

- Engineered sophisticated ensemble models and deep neural networks to forecast patient outcomes, achieving an 18% uplift in AUC scores
- Constructed advanced data preprocessing pipelines with Python and SQL, reducing manual wrangling by 50% and enhancing feature quality
- Conducted rigorous A/B testing and statistical analyses that optimized model performance and increased operational efficiency by 12%
- Designed interactive Tableau dashboards for comprehensive data visualization, reducing report turnaround time by 40%
- Collaborated cross-functionally to integrate clinical feedback into iterative model improvements, directly impacting patient care strategies

PROJECTS

Clinical Outcome Prediction using Deep MLP with Attention | TensorFlow, PyTorch

Nov 2023 – Feb 2024

- Devised an advanced deep MLP architecture incorporating attention mechanisms and skip connections to predict patient outcomes, elevating AUC by 20%
- Formulated robust feature extraction and normalization pipelines with Python and Pandas to preprocess heterogeneous clinical datasets for enhanced model training

Clinical Notes Summarization and Concept Extraction | BioBERT, Hugging Face Transformers Jul 2023 – Oct 2023

- Created a domain-adapted transformer model utilizing BioBERT and Hugging Face Transformers to summarize clinical notes and extract key medical entities, improving retrieval efficiency by 25%
- Refined tokenization and embedding strategies on an annotated healthcare corpus to boost text classification accuracy and support diagnostic decision-making

EDUCATION

Indiana University Bloomington

Indiana, United States

Master of Science in Data Science

Aug 2023 – May 2025

- Relevant Coursework: Information Visualization, Data Mining, Applied ML, Statistics, Big Data Applications, Cloud Computing, Graph Analytics, Applied Database Technologies, Intelligent Systems

University of Mumbai

Maharashtra, India

Bachelor of Engineering in Electronics

Aug 2019 – May 2023

SKILLS

Programming: Python, SQL, C++

ML/DL Frameworks: TensorFlow, PyTorch, Keras, Scikit-learn, Hugging Face Transformers

Algorithms: Ensemble Methods, MLP, LSTM, Attention Mechanisms, Transfer Learning, Statistical Modeling

Data Processing: Pandas, NumPy, Apache Spark

Cloud Platforms: AWS (S3, EC2, SageMaker), Azure

Visualization: Tableau, Power BI

DevOps: Docker, Git