

RAKSHITHA KASHYAP

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EDUCATION

Pace University, Seidenberg School of Computer Science and Information Systems	New York, NY
Master of Science (MS) in Computer Science Concentration: Data Science	May 2026
Jyothy Institute of Technology	Bangalore, India
Bachelor of Engineering (BE) in Computer Science GPA: 8.46/10	May 2024

TECHNICAL SKILLS

Programming Languages: Python, Java, HTML, CSS, SQL | **Libraries:** Pandas, NumPy, Scikit-Learn, TensorFlow, Keras, PyTorch
Data Analysis & Visualization: Power BI, Tableau, Seaborn, Matplotlib | **Web Development:** FastAPI, Flask, Streamlit
Big Data Technologies: Hadoop, Apache Spark, PySpark, Databricks | **Machine Learning & Deep Learning:** CNN, RNN, LSTM, GAN
Cloud Platforms: AWS (S3, EC2, Lambda), Google Cloud (BigQuery, Cloud Functions), Azure
Database Management: MySQL, MongoDB, PostgreSQL, SQLite | **Cloud-Native Technologies:** Docker, Kubernetes, Helm

ACADEMIC PROJECTS / PERSONAL PROJECTS

Industrial Machine Predictive Maintenance using IoT Data	May 2024 – June 2024
<ul style="list-style-type: none">Developed a predictive maintenance model leveraging real-time IoT sensor data to detect early equipment failures, reducing downtime by utilizing Random Forest & XGBoost for failure prediction with 95% accuracy.Processed and cleaned large datasets using Pandas & NumPy, removing null values and outliers, and visualized results with Power BI to optimize maintenance strategies.	
Pharmaceutical Management Tool	February 2024 - May 2024
<ul style="list-style-type: none">Built a deep learning-based prescription digitization tool using Convolutional Neural Networks (CNN), Tesseract OCR, and LSTM, enabling real-time text extraction from handwritten prescriptions.Integrated MySQL for database synchronization, Flask for web application deployment, and Telegram API to deliver real-time alerts on drug manufacturing details and pricing, enhancing prescription management.	
Generative Adversarial Network (GAN) for Image Super-Resolution	January 2024 – April 2024
<ul style="list-style-type: none">Implemented GAN to enhance resolution of low-quality images by generating high-quality counterparts, training model with 3k+ low & high-resolution image pairs to achieve realistic high-definition output.Increased image resolution using TensorFlow & Keras to analyze images & assign corresponding resolution value, training model using OpenCV to bring images to standard for optimized performance.	

PROFESSIONAL EXPERIENCE

Quantum Data Analytics Job Simulation on Forage	New York, January 2025
<ul style="list-style-type: none">Processed and analyzed large transaction dataset to extract key insights, applying feature engineering and data transformation to generate data-driven commercial recommendations for improved product performance.Benchmarking & Report Generation – Identified benchmark stores for uplift testing using statistical analysis, A/B testing, and clustering techniques, leveraging insights with Power BI and SQL to create detailed reports for the Category Manager, driving strategic decision-making.	
Tata Consultancy Services	Bangalore, India
Generative AI Intern	September 2023 – November 2023
<ul style="list-style-type: none">Engineered Q&A-enabled web application using Streamlit & FAISS, allowing real-time, context-driven conversations with large PDF documents (2k+ pages), allowing users to quickly extract necessary data from PDF documents.Implemented FAISS for vector storage & retrieval, processing large PDFs with progress bars & time estimations while integrating memory-based chat model (OpenAI) to enable dynamic, context-aware conversations with content in real time.	
TXON	Bangalore, India
Machine Learning Intern	April 2023 – May 2023
<ul style="list-style-type: none">Applied neural networks & machine learning models to develop predictive models for real-world applications, including deep learning-based image colorization, facial recognition system.Realistic color predictions for grayscale photos were made using pre-trained deep neural networks (such as CNNs or U-Net), with OpenCV handling preprocessing, TensorFlow/PyTorch handling model usage, and NumPy handling data.Face detection performed using Dlib's HOG/CNN-based detector, followed by face identification using pre-trained models and distance metrics, with OpenCV for manipulation and the face recognition package for feature extraction.	

ACHIEVEMENTS

State-Level Ideathon -1st Place	Bangalore, 2023
<ul style="list-style-type: none">Led a team in proposing an innovative smart wristband for real-time health monitoring during COVID-19 to reduce hospital overload and help individuals take preventive measures.Designed the concept to track early COVID symptoms, providing continuous health insights. Developed an early alert system that notified users when multiple symptoms were detected, recommending a doctor's visit for timely intervention.	