

PARESH SUBEDI

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EDUCATION

Fordham University

Master of Science, Data Science

Present

Jain University

Bachelor of Technology Honours, Computer Science - Data Science

Aug 2019 - Jul 2023

- **Coursework:** Python, Data Analytics, Machine Learning, Deep Learning, NLP

EXPERIENCE

Fordham University

Graduate Research Assistant

Aug 2025 - Present

New York, USA

- Researching neuroscience-inspired methods to improve the energy efficiency and inference speed of Transformer-based models (LLMs), under faculty supervision
- Exploring biologically inspired techniques such as inhibitory mechanisms and sparse activation to reduce redundant computation in large-scale neural networks

Genpact

Senior Associate

Jul 2023 - Jul 2025

Bangalore, India

- Onboarded and maintained customer accounts in SAP ERP systems, ensuring accurate and timely data entry
- Resolved account discrepancies and coordinated with cross-functional teams to enhance customer experience and reduce data errors
- Utilize Tableau to create visual reports on customer account metrics, identifying patterns that improve operational efficiency and reporting accuracy

PROJECTS

AI Agent for Ticket Triage & Auto-Assignment

- Built an AI-powered system with CrewAI agents to evaluate incoming tickets (severity, priority, and estimated effort) and auto-assign them to the most appropriate developer based on expertise, workload, and historical performance
- Integrated real-time workload monitoring and interactive Streamlit dashboards, enhancing bug triage efficiency, optimizing sprint capacity, and improving overall engineering team productivity

Skin Disease Detection: Multi-Model CNN Ensemble

- Developed a comprehensive skin disease classification system leveraging transfer learning with multiple pre-trained CNN architectures (DenseNet201, VGG16, InceptionV3, InceptionV2) on the HAM10000 dataset
- Achieved 85% validation accuracy and enhanced diagnostic performance through ensemble methods

S&P 500 Market Analysis & Interactive Tableau Dashboard

- Architected a Python ETL pipeline (yfinance, BeautifulSoup) to scrape live sector mappings and extract a decade of daily time-series pricing, engineering a unified dataset of over 1.3 million rows
- Designed a dynamic Tableau dashboard to visualize complex risk metrics including annualized volatility and max drawdowns enabling interactive exploration of structural market shifts and capital flows during macroeconomic crashes

SKILLS

- **Languages:** Python, SQL, R, NOSQL, Bash
- **Tools and Design:** PowerBi, Tableau, Git, Salesforce, SAP, Pega, Microsoft Office
- **Machine Learning:** Scikit-learn, XGBoost, Pandas, NumPy, Matplotlib, Seaborn
- **Deep Learning & AI:** PyTorch, TensorFlow, Keras, Hugging Face
- **Big Data & Data Engineering:** HDFS, MapReduce, Apache Spark(PySpark)

AWARDS & RECOGNITION

- **Graduate Assistantship:** Fordham University (2025–Present) – Awarded competitive assistantship supporting tuition and research
- **Best Final-Year Project Award:** Jain University (2023) – Recognized for undergraduate research in deep learning for dermatology
- **Merit-Based Scholarship:** Jain University (2019–2023) – Awarded for academic performance (Top 10% of cohort)