

Janmejay Mohanty

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EDUCATION

Stevens Institute of Technology Hoboken, New Jersey Master of Science in Machine Learning GPA: 3.69/4.00	May 2023
Manav Rachna International Institute of Research and Studies Faridabad, India Bachelor of Technology in Computer Science and Engineering	July 2020

SKILLS

Programming Languages & ML Frameworks: Python, PySpark, SQL, R, TensorFlow, Keras, OpenCV, PyTorch
ML Models: Ensemble Learning (Random Forest, XGBoost), Deep Learning (RNN, CNN, GAN, LSTM, Autoencoders)
Generative AI: Stable Diffusion, Hugging Face Transformers, ChatGPT
Software: AWS, Alteryx, Azure, GCP, Databricks, MySQL, R Studio, Power Apps, Tableau, Git, GitHub, Notion, Miro, Looker Studio, LaTeX, ServiceNow, Slack, Jira, Supabase, scikit-learn, SciPy

WORK EXPERIENCE

MetaFrazo | Chicago, Illinois (Remote)
Machine Learning Engineer – NLP Algorithm Team Nov 2023 – Present

- Drives development of real-time Voice Cloning & Language Translation models at ElevenLabs and Synclabs, achieving 98% cross-lingual accuracy on AWS infrastructure, managing UI / UX interface for frontend website
- Orchestrate CI/CD pipeline integration via CodePipeline, ensuring seamless deployment of ML models from GitHub
- Implement auto-scaling on AWS infrastructure, optimizing resource utilization and handling user traffic efficiently

Jelloow | Chicago, Illinois (Remote)
Machine Learning Intern Aug 2023 – Nov 2023

- Led Data Science Team, improving ML models by 85% via external data source selection and Supabase integration
- Formulated Data Scraping tools (Selenium, Scrapy, BeautifulSoup), gathers web data efficiently with SQL
- Transformed brand marketing using Generative AI, Stable Diffusion XL model with ChatGPT on TensorFlow, Keras

Defense Research and Development Organisation (DRDO) | Hyderabad, India
Research and Development Engineer Nov 2019 – Mar 2020

- Led research attained 30% reduction in key size, maintaining traditional security in digital signatures (ECDSA)
- Fabricated website integrated digital signature software (HTML, CSS, Flask, Python), boosted engagement by 70%
- Conducted comprehensive evaluations of digital signature algorithms for enhanced security and efficiency

Techexplica / South Delhi, India
Machine Learning Intern Jun 2019 – Aug 2019

- Developed Machine Learning framework with RNN, CNN, XGBoost for analyzing 10,000+ data points using PyTorch
- Optimized processing efficiency by 40% with Lambda functions, numpy and pandas DataFrame for large-scale data
- Engineered scalable data system, optimizing operations with a 40% reduction in processing time for large datasets

LEADERSHIP EXPERIENCE

iMentor | New York, New York
Student Mentor Dec 2023 – Present

- Providing personalized guidance weekly via platform/mobile app, fostering mentee's growth & motivation
- Involves with monthly school events, facilitated supportive environment, engaged in pair expeditions

Momentum AI | Cambridge, Massachusetts (Remote)
Machine Learning Mentor Dec 2022 – Jan 2023

- Developed 5 interactive hands-on ML projects, fostering deeper understanding of Python, SQL and R concepts
- Led collaborative projects with MIT and Princeton students, demonstrating leadership in cross-functional ML training

PROJECTS

SOLESTYLE: Powering Inventory Management with Microsoft Power Platform Jan 2024 – March 2024

- Reduced inventory processing time by 90% using Power Apps, Automate, Virtual Agent, BI, & Dataverse integration
- Increased user satisfaction by 95% with Canvas & Model-Driven Apps, streamlining operations with Power Automate
- Boosted productivity by 90% with comprehensive solution via Power Platform, optimizing SoleStyle's operations

End-to-End Receipt Prediction Application Nov 2023

- Built TensorFlow linear regression model, optimized with Stochastic Gradient Descent for 98% accurate predictions
- Crafted Flask-driven web interface, enabling real-time user input and live Plotly Data Visualization for better insights
- Enhanced deployment consistency 60% via Docker, ensuring application streamlined accessibility and reproducibility

Sentiment Analysis on Amazon Reviews

Jan 2023 – May 2023

- Conducted sentiment analysis on 34.6M Amazon reviews using NLP techniques for precise polarity determination
- Designed CI/CD pipelines on 6-node GCP cluster (Vertex AI, PySpark, NoSQL), cutting processing time by 92%
- Unearthed optimal Naive Bayes resulting 98.4% accuracy, recommending it for precise review polarity using titles

PUBLICATIONS

H. Kapoor, A. Sharma, **J. Mohanty**, A. Khatri, and A. Chugh, "Natural Language Processing: Challenges and Application," International Conference on Smart Technologies in The Field of Engineering, Management & Sciences, vol. 1, pp. 87-93, 2018