Jitendra Prasad Kadiyam

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EXPERIENCE

Global IT Solutions Inc — Texas, USA
AI/ML Engineer — *Aug 2023 – Dec 2024, Part-time*
Skills Used: SAP BTP, SAP BPA, SAP AI Core, SAP HANA, Process Visibility (Dashboard), NLP(BERT), OCR

- Automated invoice processing using OCR, AI Core, and NLP in SAP BPA, reducing manual effort by **80%**.
- Developed interactive dashboards and analytics, improving data visibility by **60%** through SAP Process Visibility.
- Optimized SAP workflows, enhancing process efficiency by **40%** with AI-driven automation in SAP BTP.
- Reduced data retrieval time by **50%** using SAP HANA, ensuring faster access to critical insights.
- Integrated SAP BPA with dashboards, enabling real-time tracking and reducing reporting time by **35%**.
- Improved document processing accuracy by **90%** using AI-based extraction models in SAP AI Core.
- Automated end-to-end invoice handling, cutting processing time from hours to **minutes**.
- Collaborated with cross-functional teams, ensuring **seamless integration** and **zero downtime** deployment.
- Enhanced workflow monitoring with predictive analytics, reducing errors by **25%**.
- Streamlined data flow between SAP BTP modules, improving overall system performance by **30%**.

University of New Haven
Research Project — Connecticut, USA
Skills Used: Python, NumPy, OpenCV, Object Tracking Algorithms: CSRT, Mean Shift — *Aug 2023 – Dec 2024, Full-time*

- Evaluated the performance of **Mean Shift and CSRT** algorithms in dynamic environments.
- **CSRT** is superior in handling scale changes, occlusion, and dynamic scenes with moving cameras and objects.
- **Mean** Shift is efficient for simpler, static scenarios but struggles with occlusion and fast-moving objects.
- CSRT outperforms in challenging environments, while Mean Shift is more computationally efficient in controlled environments.
- Overall**, CSRT is preferred for complex**, dynamic scenes, and Mean Shift is best for static, less complex scenarios.
- CSRT performs better than Mean Shift by **over 30%** in all scenarios.

Cognizant Technology Solution — Chennai, India
Programmer Analyst Trainee — *Sep 2022 – July 2023, Full-time*
Skills Used: Power BI, SQL, Python, Pandas, NumPy, Excel, ETL, Machine Learning, Scikit-Learn, Data Analysis

- Designed a **Sales Performance Dashboard** in **Power BI and SQL**, improving decision-making efficiency by **40%**.
- Optimized **ETL pipelines**, reducing data extraction time from **2 hours to 30 minutes (75% improvement)**.
- Analyzed **customer purchasing behavior** using **Python**, increasing revenue by **15%** through targeted marketing.
- Automated **data cleaning & validation** using **SQL & Excel**, improving accuracy by **98% &** reducing manual efforts by **60%**.
- Developed **predictive models** using **machine learning**, reducing **inventory costs by 25%** and minimizing stockouts.
- Implemented anomaly detection in sales data using **Python**, identifying fraud patterns and reducing losses by **20%.**
- Integrated real-time data streaming with **Power BI**, enabling **50%** faster insights for business operations.

Flipkart
Data Analyst — Bangalore, India
Skills Used: Python, SQL, Excel, Machine Learning, Power BI. — *Feb 2022 – July 2022, Intern*

- Improved **IPP (Item Per Person) by 15%** using **Python, SQL, and Excel**, optimizing warehouse efficiency.
- Designed a **grid system**, saving **20%** of warehouse space with **Power BI and data analytics**.
- Analyzed **dock utilization** using **machine learning models**, reducing turnaround time.
- Developed a **cost-effective supply chain network** using **lean methodology and data-driven insights**.
- Applied **SQL and Python automation**, enhancing speed, quality, and cost in logistics operations.
- Designed and tracked **Key Performance Indicators (KPIs)** in **Power BI**, improving monitoring.
- Conducted **Root Cause Analysis (RCA) with data mining**, identifying inefficiencies and solutions.
- Provided **executive updates using SQL-based dashboards**, enabling data-driven decisions.
- Optimized **logistics planning using predictive analytics**, reducing delays and improving workflow.
- Automated **data reporting with Python scripts**, increasing accuracy and reducing manual effort.

EDUCATION

University Of New Haven West Haven, CT
MS in Data Science; GPA: 3.76/4.00 *Aug 2023 – Dec 2024*
Relevant Coursework:

- Data Science, Artificial Intelligence, Machine Learning, Distributed and Scalable Data Engineering, Computer Vision, Deep Learning, Natural Language Processing, Power-BI.

Honors/Awards:

- *Awarded 30% Dean's Scholarship*

Vellore Institute of Technology (VIT University) Vellore, India
B. Tech in Mechanical Engineering; GPA: 3.7/4 (CGPA: 8.67/10.00) *Aug 2018 – May 2022*
Relevant Coursework:

- Data Structures & Java, Object Oriented Programming, Database Management System.

Honors/Awards:

- *Best Outgoing Student of the Year 2022.*
- *100% Scholarship at India's No. 1 Private University.*
- *Selected by Top Companies – Flipkart, L&T Construction, Cognizant.*

PROJECTS

AI-Powered One-Up Puzzle Solver Learning | University of New Haven |

- Implemented **backtracking algorithms** and **forward propagation** techniques to improve puzzle-solving efficiency, reducing solution time by **40%**. Developed dynamic visualizations using **Matplotlib** and integrated **OpenCV** and **OCR** for automated image-to-data parsing, improving data processing **accuracy by 30%.** Planned future enhancements include automating data input from encoded images, optimizing performance with parallel computing, and creating a real-time interactive tool for a **50% faster** puzzle-solving experience.

Smart Supply Chain for E-Commerce Processing | University of New Haven |

- Developed a **predictive analytics system** using **Amazon Sage Maker, Python, and SQL**, improving delivery time accuracy by **30%**. Designed a **scalable data pipeline** with **Amazon S3 and ETL workflows**, enhancing real-time order tracking efficiency by **40%**. Utilized **EDA, machine learning, and data preprocessing** to optimize model performance, reducing supply chain delays by **25%**.

Handwritten Devanagari Script Recognition Using || University of New Haven |

- Developed a **CNN-based handwritten Devanagari character recognition system** using **Python, Deep Learning, and Flask**, achieving **98% accuracy** across **46 classes**. Designed a **custom CNN architecture** and integrated a **Flask web interface** for real-time recognition, enhancing accessibility. Optimized model performance with **data preprocessing, precision-recall analysis, and confusion matrix evaluation**, ensuring high reliability.

Emotion Analysis and Detection in Mental Health | University of New Haven |

- Developed an **NLP-based emotion detection system** using **Python, BERT, Distil BERT, and PyTorch**, improving classification accuracy. Implemented **text preprocessing techniques** and compared **feedforward neural networks vs. transformer models**, showcasing the superiority of BERT-based architectures. Optimized **Distil BERT for faster real-time predictions**, enhancing efficiency in sentiment analysis applications.

Snake Game using Reinforcement Learning | University of New Haven |

- Developed a **reinforcement learning-based Snake AI** using **Python, PyTorch, Q-learning, and Deep Neural Networks (DNN)** to optimize gameplay. Designed a dynamic game environment and implemented **Q-learning algorithms** to improve the agent's decision-making. Achieved **stable learning and optimal action predictions**, enhancing adaptability and performance through iterative updates.

SKILLS

Programming Languages	**:** Python, Java, R.
Databases	**:** MySQL, Excel.
Data Science Tools	**:** Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, TensorFlow, Keras, PyTorch, XGBoost, LightGBM, spaCy, NLTK, Plotly, SciPy, Statsmodels, OpenCV, PySpark, Dask, SQLAlchemy, Flask, FastAPI, SHAP, LIME.
Data Visualization	**:** Matplotlib, Seaborn, Power BI, Tableau,Looker Studio.
Machine Learning	**:** Supervised Learning, Unsupervised Learning, XGBoost, LightGBM.
Natural Language Processing (NLP)	**:** NLTK, SpaCy, Hugging Face, YOLO, BERT.
Deep Learning Algorithms	**:** CNNs, RNNs, LSTMs, GANs, Transformers.
Big Data & Cloud Technologies	**:** AWS (S3, EC2, Redshift), Google Cloud (BigQuery), Hadoop, Spark.
Deployment & MLOps	**:** Flask, FastAPI, Docker, Kubernetes.
Statistics & Mathematical Skills	**:** Probability Theory, Hypothesis Testing, Bayesian Inference, Regression Analysis, Statistical Modeling, Time Series Analysis, ANOVA, Principal Component Analysis (PCA), A/B Testing.

Certifications

- **Learning NGINX** – *LinkedIn* | Nov 2024 | Skills: Nginx
- **Linux System Engineer: Web Servers and DNS Using Apache, NGINX, and BIND** – *LinkedIn* | Nov 2024 | Skills: Server Administration, Red Hat Linux
- **Technical Product Management** – *LinkedIn* | Sep 2024 | Skills: Technical Product Management
- **MLOps Essentials: Model Deployment and Monitoring** – *LinkedIn* | Apr 2024 | Skills: MLOps, Machine Learning
- **MLOps Essentials: Model Development and Integration** – *LinkedIn* | Apr 2024 | Skills: MLOps
- **Apache Kafka Essential Training: Getting Started (2021)** – *LinkedIn* | Mar 2024 | Skills: Apache Kafka
- **Graph Databases: Neo4j for Complex Data Relationships** – *LinkedIn* | Mar 2024 | Skills: Neo4j
- **HTML Essential Training** – *LinkedIn* | Feb 2024
- **Python: XML, JSON, and the Web** – *LinkedIn* | Feb 2024
- **SQL Tips and Tricks for Data Science** – *LinkedIn* | Feb 2024
- **Data Science Foundations: Data Engineering** – *LinkedIn* | Jan 2024 | Skills: Data Engineering
- **Data Science Methodologies: Making Business Sense** – *LinkedIn* | Nov 2023 | Skills: Data Modeling, Data Science
- **Generative AI at SAP** – *SAP* | Nov 2023 | Credential ID: openSAP | Skills: SAP Products, LLM, Generative AI
- **Machine Learning with Scikit-Learn** – *LinkedIn* | Nov 2023 | Skills: Scikit-Learn, Machine Learning
- **Predictive Analytics Essential Training: Data Mining** – *LinkedIn* | Nov 2023 | Skills: Predictive Analytics, Data Mining
- **Python Statistics Essential Training (2018)** – *LinkedIn* | Nov 2023 | Skills: Python
- **SPSS Statistics Essential Training** – *LinkedIn* | Nov 2023 | Skills: IBM SPSS Statistics
- **Data Cleaning in Python Essential Training (2021)** – *LinkedIn* | Oct 2023 | Skills: Data Cleaning, Python
- **Data Ingestion with Python** – *LinkedIn* | Oct 2023 | Skills: Data Ingestion, Python
- **Python for Data Visualization** – *LinkedIn* | Oct 2023 | Skills: Data Visualization, Python
- **SQL Essential Training (2019)** – *LinkedIn* | Oct 2023
- **Learning Python (2020)** – *LinkedIn* | Sep 2023 | Skills: Python
- **Advanced Data Analytics Tools** – *VIT-AP* | Aug 2022
- **Data Science Orientation** – *Coursera* | Aug 2022
- **What is Data Science** – *Coursera* | Aug 2022
- **Data Science and Advanced Analytics** – *VIT-AP* | Jul 2022
- **NEEV Supply Chain Internship** – *Flipkart* | Jul 2022
- **Role of Machine Learning in "Cosmology"** – *VIT-AP* | Jul 2022
- **Python with Space Applications Workshop by Spaceonova** – *VIT-AP* | Dec 2021
- **STRUCTURAL & CFD ANALYSIS USING ANSYS** – *VIT-AP* | Sep 2021
- **Electric Vehicle Design Industrial Internship** – *Autobot India* | Jul 2019
- **Job Ready English Programme** – *ELS Language Centres, Malaysia* | Jan 2019