Aaditya Chintaman Punekar | ⊙ | 𝗶𝗻 | acp.081097@gmail.com | ▦ +91-9987371229; +44-7776663911

GenAI Development | MSc Computer Science | B.E Computer Engineering | Mumbai, India | London, UK

EDUCATION

University of London, Queen Mary	London, UK	MSc in Computer Science	09/2021 – 04/2023
Mumbai University	Mumbai, India	B.E in Computer Engineering	07/2017 – 10/2020

PERSONAL PROJECT

Gesture and Sign Language Translation in Python using NumPy	05/2019 – 05/2020

- Led the development of a Python-based system to translate gestures and sign language into text and speech, following rigorous SDLC standards to ensure reliability and alignment with Gen AI's innovative objectives.
- Utilized libraries like NumPy, Scikit-learn, SciPy, and pandas to enhance data analysis and processing, showcasing extensive expertise with critical tools essential for Gen AI projects.
- Spearheaded the development and curation of datasets vital for training machine learning models, with a strong emphasis on data-driven solutions—a cornerstone of Gen AI advancements.
- Applied advanced computer vision techniques, including convolutional neural networks (CNN) with Keras, to significantly improve gesture recognition accuracy, reflecting proficiency in cutting-edge technologies essential to Gen AI.
- Implemented machine learning algorithms to transform sign language gestures into readable text, demonstrating expertise in modern AI approaches integral to Gen AI.
- Integrated text-to-speech functionality for spoken output of translated text, exemplifying a holistic AI approach by incorporating both linguistic and auditory elements critical to Gen AI applications.
- Promoted open collaboration by sharing the project's code and documentation on GitHub, supporting a transparent and collaborative ethos aligned with the Gen AI community's values.

PROFESSIONAL PROJECT

Gen AI-driven Finetuning of LLMs for Automated Mention Analysis	05/2023 – 05/2024

To meet a client's increasing need for efficient online mention analysis, our team spearheaded a cutting-edge project leveraging Generative AI (Gen AI) technologies. This solution was designed to automate and enhance mention analysis through advanced Large Language Models (LLMs) such as BERT, RoBERTa, and LLaMA, providing the client with significant improvements in processing speed and accuracy.

- **Client-Centric AI Solutions**: Developed customized, AI-driven mention analysis systems specifically tailored to the client's requirements, ensuring precise and relevant insights from online data.
- **Advanced Fine-Tuning for Optimal Performance**: Fine-tuned pre-trained LLMs to meet the client's unique data analysis needs, significantly improving model accuracy and efficiency in identifying relevant mentions.
- **Robust NLP Pipelines for Data Processing**: Designed and implemented sophisticated NLP pipelines to automate the entire mention analysis process, delivering comprehensive and actionable insights from large volumes of data.
- **Ongoing Iterative Refinement**: Continuously refined the solution based on client feedback, ensuring sustained optimization of the system to adapt to their evolving needs and maintain high performance over time.

PROFESSIONAL EXPERIENCE

Sainsbury's Pvt Ltd	Manager – Store Operations	London, UK	05/2024 – Present

- **Directed Comprehensive Stock Audits**Led detailed reviews of produce and fresh food inventory, ensuring precise stock management, adherence to pricing policies, and compliance with quality standards. Additionally, utilized Python to develop automated systems for real-time tracking of stock levels and pricing discrepancies.
- **Optimized Inventory & Supply Chain Operations**: Strategically managed supply chain processes, overseeing deliveries and implementing proactive ordering strategies to maintain ideal stock levels and mitigate shortages. Integrated Python scripts to automate supply chain data analysis, improving decision-making and efficiency.
- **Fostered Cross-Functional Collaboration for Excellence**: Partnered with team leaders and stakeholders to enhance customer service delivery, driving a consistently exceptional shopping experience. Supported the team with Python-based tools to streamline workflows and reduce manual errors.
- **Upholding Store Excellence and Customer Satisfaction**: Supervised store standards, ensuring a clean and organized environment while developing solutions to address customer concerns promptly, fostering loyalty and trust. Leveraged Python automation to handle repetitive tasks such as generating customer feedback reports and monitoring key service metrics.

JustInClicks	GenAI Developer – ORM Services	Mumbai, India	05/2023 – 05/2024

- **Pipeline Design & Model Integration**: Developed and executed end-to-end pipelines utilizing advanced Large Language Models (LLMs) such as BERT, RoBERTa, and Longformer, optimizing model architectures for ORM-specific tasks, ensuring scalability and precision in model performance.
- **Real-time NLP Model Deployment**: Implemented NLP models for tasks like sentiment analysis, entity recognition, and text classification across vast ORM datasets, ensuring efficient real-time processing and analysis for effective reputation management.
- **Model Training & Fine-tuning**: Led training and fine-tuning initiatives for large-scale LLMs, leveraging ORM datasets to enhance model accuracy and performance, optimizing tagging and classification across various client requirements.
- **Model Optimization for Multilingual & Multi-Label Tasks**: Enhanced the efficiency of multilingual and multi-label classification by fine-tuning LLMs, resulting in improved tagging accuracy and operational cost reduction in data processing for ORM services.
- **GenAI Innovation & Integration**: Integrated cutting-edge GenAI methodologies into NLP model development, showcasing expertise in aligning AI innovations with the unique demands of ORM services, pushing the boundaries of AI-driven reputation management solutions.

Deep Punch & Pack	Data Analyst - Procurement	Mumbai, India	09/2020 – 09/2021

- **Supplier Performance & Cost Analysis**: Analysed supplier performance and pricing trends for paper rim and cardboard materials, optimizing procurement decisions based on quality, cost-efficiency, and delivery reliability.
- **Demand Forecasting & Inventory Optimization**: Applied data-driven forecasting models to predict material demand, ensuring precise inventory levels that minimized excess stock while preventing shortages.
- **Spend & Market Analysis**: Conducted spend analysis and market research to identify cost-saving opportunities, negotiate better contracts, and stay ahead of price fluctuations in the paper and cardboard supply market.
- **Risk Mitigation & Supplier Strategy**: Evaluated supplier risks, including market volatility and supply chain disruptions, enabling proactive risk management and ensuring consistent material availability.
- **Reporting & Strategic Insights**: Developed detailed reports and dashboards to track key procurement metrics, offering strategic insights for budget optimization and performance improvement in the procurement process..

KEY COMPETENCIES

Results-driven professional with expertise in the convergence of Artificial Intelligence (AI), Machine Learning (ML), and Data Analytics, underpinned by a solid background in Python programming. Adept at employing innovative technologies to extract insights and foster progress across various sectors.

- AI and Machine Learning Innovation: Skilled in architecting and deploying sophisticated AI algorithms and machine learning models using Python, specializing in natural language processing, computer vision, and predictive analytics. Proficient in leveraging Generative AI (Gen AI) to develop groundbreaking solutions for a range of applications.
- Data Analysis & Business Intelligence: Experienced in interpreting complex datasets and generating actionable insights with tools like Google Looker Studio, Tableau, and Microsoft Power BI. Expertise in applying statistical methods to reveal patterns and trends.
- Programming Expertise: Proficient in Python for AI and ML applications, with additional knowledge of R, MATLAB, and Java.
- Technological Proficiency: Extensive hands-on experience with AI frameworks, including TensorFlow, PyTorch, and scikit-learn. Skilled in using cloud services to create scalable AI solutions, and familiar with SQL Server, Elastic Search, Kibana, and Anaconda for data management and analysis.
- Natural Language Processing & Language Models: Proficient in advanced language models such as BERT, RoBERTa, and GPT-3.5, with the capability to utilize these models for text generation, sentiment analysis, and language comprehension.
- Agile Methodologies & Project Oversight: Well-versed in Agile practices and project management methodologies, ensuring the effective execution of AI and ML projects while emphasizing risk management and stakeholder collaboration.
- Commitment to Professional Growth: Dedicated to continuous learning and keeping abreast of the latest developments in AI, machine learning, and programming languages. Actively participates in professional development through online courses, conferences, and community engagement.

ACHIEVEMENTS

- Recognized for outstanding analytical and problem-solving skills, consistently delivering high-quality insights and recommendations.
- Led cross-functional teams in the successful implementation of complex AI projects, demonstrating strong leadership and collaboration skills.
- Published a research paper on AUTOMATED TIMETABLE GENERATOR in the International Journal of Science and Research (Volume 6 Issue 1 January 2017).
- Attended the official "SAP" workshop in 2016-17 organized by Tech Mainstay.
- Completed certification of ISO/IEC 27001 Information Security Associate in January 2021
- Completed certification on Python Bootcamp 2021 in February 2021 in Udemy.
- Won a Gold and a silver medal in Boxing, District Level Tournament organized by the Indian Boxing Association 2015-16.
- Awarded 1st place in Boxing MSSA organized by the Boxing Association in 2013-2014 and achieved the "Best Boxer Title".