Parth Vyas *Artificial intelligence engineer*

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PROFESSIONAL SUMMARY

I am passionate about AI and smart technology, I have over 2 years of practical experience with artificial intelligence, machine learning, and deep learning, as a specialist in building intelligent and scalable solutions with Python, TensorFlow, and Keras. Furthermore, I also have +1 year of experience in business development with experience using CMS tools, HubSpot CRM, ERP systems, and marketing APIs to help increase efficiencies with strategic planning, automation, and sales. I operate best when I can merge technology and business processes to make real-world impact through collaboration and innovations.

PROFESSIONAL EXPERIENCE

Business Consultant 05/2025 – Present
Velozity Global Solution (Freelance) Chennai, India
- Launched comprehensive training program on CMS and CRM platforms, boosting platform adoption rate by 40% among internal groups and enhancing data-driven decision-making across departments.
- Defined a comprehensive brand platform that aligned visual identity and messaging with market positioning, resulting in a 30% increase in brand recognition across key customer demographics.
- Managed a process re-engineering project to improve and consolidate end-to-end service processes; restructured communication flow among 10 departments and cut down paperwork by 75%.

AI Integration Analyst 06/2024 – 06/2025
Helioustin
- Developed and deployed AI models that improved workflow automation, improving decision making accuracy by greater than 60% across teams.
- Worked closely with cross-functional stakeholders to implement AI-Powered workflows, resulting in a 90% integration success with other applications and services.
- Developed server-side applications using Node.js and Express.js, reducing response time from 4 seconds to 1.5 seconds, while allowing real-time interaction with deployed ML models.
- Designed, developed and tested RESTful APIs that improved reliability of communication between AI tools and other layers of applications by as much as 50%.

AI Engineer 04/2023 – 06/2024
Persist Ventures (Internship + Freelance)
- Orchestrated collaborative efforts across departments to seamlessly integrate AI solutions into existing platforms, boosting product capabilities and increasing user engagement by 40%.
- Engineered a comprehensive performance optimization strategy, fine-tuning machine learning models for image processing tasks, resulting in a 40% increase in accuracy rates and a 25% reduction in processing time.
- Piloted two significant AI projects from inception to delivery, facing the unique challenges around integrated toolsets and functioning with models and performance.
- I focused on real-world issues faced in AI systems like eliciting model behavior, optimizing workflows, and backend by working towards practical solution improvements.

SELECTED PROJECTS

Deep3D: 2D-to-3D Image Transformation with PyTorch
Python / Machine Learning / Data mining / PyTorch / VGG16 / Unet
- Deep3D is a sophisticated AI-based image transformation system that converts 2D images into 3D images using deep learning technques. The project utilized convolutional neural networks (CNNs), specifically pre-trained models such as VGG16 and UNet, to control depth, structure, and texture from a flat 2D image.
- The aim of the project was to allow accurate and visually coherent 3D reconstructions for augmented reality, simulation environments, and image-based modeling applications.

Weather Forecasting Using Advanced Algorithms
Machine Learning / Deep Learning / Supervised Learning / LLM
- The goal of the project was to improve the accuracy and speed of weather forecasting using advanced machine learning and deep learning algorithms.
- The project used supervised learning techniques, particularly using the decision tree model to access both stored historical and real time meteorological data to provide forecasts for weather conditions with a high degree of accuracy.

Predicting Coma Patient Emotions Using Machine Learning and Deep Learning Techniques
Python/ Machine Learning/ Deep Learning/ Scikit-learn/ TensorFlow/ Keras/ CNN/ RNN/ NLP/ Amazon S3/ HDFS
- This research project specifically dealt with the development of a predictive system to evaluate emotional responses exhibited by coma patients through ML and DLtechniques.
- Non verbal cues were used with the aim of interpreting emotional states from biomedical signals (brain activity) and visual or auditory stimuli; this would ultimately provide new understandings in to the cognitive activity of the patient.

- The aim of our research undertaking was to support clinicians in monitoring recovery and improving the construction of their patient interaction strategies.
- Data were stored and processed using distributed storage systems e.g. Amazon S3 and HDFS, to scale with datasets that are large instead of requiring special systems for large datasets, our project adopted the latter process as it would define best research strategies moving forward.

EDUCATION

Bachelor's of Technology (Computer Science and engineering) Jaipur, India
The ICFAI University/IcfaiTech
CGPA:- 8.0/10

SKILLS

Languages — Python | C/C++ | JavaScript | Node.js | Express.js | HTML | CSS | Data Structures & Algorithms

Databases — *ORACLE&MySQL* | *MS-Excel* | *Power BI* | *Tableau* | *Qualitative and Quantitative Analysis* | *Google Analytics*

Tools & Platform's — Git | VS Code | Postman | Google Colab | MS Excel | Canva | AWS S3 | HDFS | HubSpot | Zoho CRM | Trello | Slack | Notion | Zapier

Frameworks/Technologies — TensorFlow | Keras | PyTorch | OpenCV | Django | Bootstrap | Apache Spark | Dask | Ray

Core Areas — Machine Learning | Deep Learning | Natural Language Processing (NLP) | AI Integration | Backend Development | API Development | Cybersecurity Fundamentals | Data Analytics | Digital Marketing | SEO | Web Scraping | Business Strategy | Sales Automation | Process Optimization

CERTIFICATES

Coursera_Gcloud
Coursera certificate related to Google Cloud

Data Analytics: 1 (Foundations)

PyToarch_Project
Project utilizing PyTorch

Data_Analytics: 2 (Extending and Applying Core Knowledge)
Extending and applying core knowledge in Data Analytics

IIRS_DistanceLearning
Distance learning course from ISRO

IEEE_ICICCD-2022
Participation in IEEE ICICCD 2022

PUBLICATIONS

Weather Forecasting Using Machine Learning and Deep Learning Algorithms 07/02/2025
Parth Vyas(Author)/ ICFAiSE 25
- Developed and evaluated a Forecast model to enhance weather forecasting accuracy in India, identifying CNNs, LSTMs, and decision trees as top-performing methods.

Predicting Coma patient emotions Based on a Real-World Study, Using Machine Learning and Deep Learning Techniques 11/09/2022
Parth Vyas (Author) / RiverPublisher
- Emotional interactions are advantageous in a variety of contexts because they have a significant positive impact on cognitive functions like learning, memory, perception, in the human brain.