

Mohit Panchasara

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Objective

As a dedicated Applied AI Solutions Development Postgraduate, I bring hands-on experience and proven ability in designing, training, and deploying complex algorithms, fine-tuning transformer models, and bringing research into production with measurable results that drive business outcomes. Passionate about NLP, Computer Vision, Generative AI, big data engineering and I always give my 100% to get the best results.

Highlights of Qualifications

- Designed and trained CNNs and transformer models from scratch as well as fine-tuned using TensorFlow & PyTorch, with review research and finding solutions to get the best model for AI-Generated Content Detection.
- Built end-to-end ML pipelines: data ingestion, preprocessing, hyperparameter tuning (RandomizedSearchCV), evaluation (Precision, Recall, ROC AUC), and proficient in deploying models to production with Nodejs/Docker, leveraging real-time stream processing frameworks.
- Strong ability to read and implement state-of-the-art research papers; being a part of a conference paper on BERT-based NER achieving 92% F1 score.

Work Experience

- Sales and Digital Marketing** – Happy Soul Films (Toronto) Jan 2025 – Present
- Drove 20% revenue growth through digital campaigns and exhibitions, including 2025 Bridal Show.
 - Improved email CTR by 30% via segmentation and A/B testing; integrated CRM to boost lead conversions.
 - Reduced vendor costs by 15% through strategic negotiation and contract optimization.
 - Optimized SEO content strategy, improving organic web traffic by 11.3% in 3 months.
- Data Analyst** – CODESERVIR Technologies (Remote) June 2023 – Dec 2024
- Designed and optimized ETL workflows in Python, processing 2M+ records across 10+ datasets.
 - Developed BI dashboards in Tableau & Power BI; increased decision-making speed by 25%
 - Collaborated with ML team to integrate PyTorch models into dashboards; boosted forecast accuracy by 8%.
 - Created performance tracking scripts to auto-log model drift and KPIs; reduced manual overhead by 35%.
- Tutor** – CODESERVIR Technologies (Remote) Dec 2023 – Nov 2024
- Trained 50+ students in ML, Python, and data preprocessing with 1:1 mentoring and performance tracking.
 - Designed and delivered hands-on coding projects covering scikit-learn, pandas, matplotlib, and PyTorch.
- Full Stack Developer Intern** – ADmyBRAND (Remote) Jan 2023 – May 2023
- Deployed CI/CD pipelines via GitHub and worked on AstroJS, Docker and Figma.
 - Built and integrated smart contract modules for blockchain-based campaign verification and smart contracts.
- Data Science Research Intern** – IIIT Vadodara, India May 2022 – Jul 2022
- Achieved 92% accuracy on BERT-based NER model using PyTorch; results published.
 - Presented findings at institute symposium; received faculty commendation.

Education

- Postgraduate Diploma, Applied AI Solutions Development** Jan 2025 – Dec 2025
George Brown College, Toronto, ON GPA: 3.55/4.00
- Relevant Courses: ML, DL, Data Engineering, NLP, GenAI, CV, DAMA-DMBOK, Advanced Mathematics.
- Bachelor of Technology in Information Technology** Aug 2019 – Jun 2023
IIIT Vadodara, India CGPA: 7.83/10.00
- Relevant Courses: Data Structures & Algorithms, DBMS, Software Engineering, Operating Systems, Machine Learning, Computer Networks, Data Visualization, Cryptography.

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Technical Skills

Programming Languages: Python, C++, SQL, Bash

Data Science & AI: Statistical Modelling, Computer Vision, Supervised & Unsupervised Learning, Natural Language Processing, Data Wrangling, Trend Analysis, Data Collection & Handling, Data Warehousing, Business Intelligence, Data Reporting, Agile Project Management

Frameworks & Libraries: PyTorch, NumPy, Pandas, Tensorflow, scikit-learn, Django, Matplotlib, Hadoop, Node.js, Selenium

Databases & Storage: MySQL, MongoDB, NoSQL, SQL Server (SSMS, SSIS, SQL Express)

Tools: Tableau, Git, Jupyter Notebook, VS Code, Alteryx, Jira, PyCharm, CLion, Unix/Linux, Power BI, Visual Studio, Microsoft 365 apps, MATLAB, LaTeX

Soft Skills: Cross-functional collaboration, Agile delivery, Time management, Conflict resolution, Documentation, Strategic problem-solving, Technical writing, Business Planning

Projects

Real vs AI-Generated Image Classifier (Live Demo) July 2025 – Present

- Developed two models: Gated CNN (on 6M images) and fine-tuned ViT-32 on 50K 4K images.
- Fine-tuned ViT-32 achieved 86% accuracy, outperforming baseline CNN by 18% with minimal overfitting.
- Reviewed 6+ papers, showcasing strong research, transformer, and CNN capabilities.

AI Dialogue Summarizer for IT Tickets Mar 2025 – Jun 2025

- Built NLP pipeline to summarize chat/email logs for ticket classification.
- Fine-tuned BART and T5 for summarization; reduced manual review time by 50%.
- Applicable to Google Meet, chatbots, and CRM summarization tools.

Industrial Boiler Temperature Time Series Predictor Feb 2025 – Apr 2025

- Used Random Forest, XGBoost, AdaBoost, ARIMA, SARIMAX, LSTM, and Transformer models.
- Performed regression modelling on real-time temp data to identify the best predictor.
- Managed entire process in Agile Sprints using JIRA to show development skills.

Big Data Tools Application on Himalayan Dataset Jan 2025 – Mar 2025

- Handled large-scale expedition dataset using SSIS, SSMS, Alteryx, Power BI, Tableau.
- Built schema with Snowflake and applied ML using Apache Spark.
- Demonstrated proficiency across big data pipelines, cleaning, and reporting.

Humour Detection & Sarcastic Language Modeling May 2023 – Present

- Fine-tuned BERT and PyTorch models on jokes dataset; achieved 89% accuracy.
- Prototyped real-time integration and tracked model drift with unit tests.

Additional Activities & Interests

Hackathons: HackIIITV '19/'20, Hack This Fall 2.0, Hack The Bronx, HackX, Hash Code 2022

Competitive Coding: 600+ problems solved on LeetCode, Codeforces, CodeChef

Volunteering: GDSC lead, E-sports event organizer

Guitarist: Ex-Member of Encore band at IIITV

Interests: Gaming, Video Editing, Photography & Videography, Cinephile