Ashutosh Pandey

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PROFESSIONAL SUMMARY

I am a skilled AI and automation specialist with a proven track record in launching innovative solutions and improving operational efficiency. With rich experience in machine learning, natural language processing, and cloud technologies, I have successfully led cross-functional teams and developed end-to-end automation projects that drive significant organizational improvements.

SKILLS

Backend: Python, Flask, Jinja2, psycopg2, pandas, numpy, Streamlit
Frontend: HTML, CSS
Database: PostgreSQL, SQLite, MongoDB
Cloud: AWS, Azure
IDE & ADLM: VSCode, PyCharm, git, Jira, Confluence
ML/NLP: sklearn, keras, fastText, gensim, nltk, spaCy, transformers, sentence-transformers, LangChain
Data & MLOps: mlflow, PySpark, Databricks, CVAT(annotation)

PROFESSIONAL EXPERIENCE

NielsenIQ | *Remote* *2025-02 - Present*

Manager

- Oversaw launch of a GenAI support chatbot with compliance across security, legal, cloud and architecture policies
- Coordinated cross-functional teams to ensure data privacy and system integrity during development and rollout
- Used GPT-4o-mini with LangChain to build agents/skills automating support chats
- Implemented multiple automation solutions including ETL, realizing ~14+ FTE equivalent savings

NielsenIQ | *Remote* *2022-09 - 2025-02*

Senior Expert – Innovation & Automation

- Built an Extreme Multi-Class Classification model (transformer + vectorDB) for 50k+ classes
- Delivered Semantic Search (retrieval/encoding/reranking) to match products from millions of options
- Created annotation & training pipelines for Object Detection to extract promos/descriptions/products from flyers
- Trained NER to extract brand, quantity, UoM, price from descriptions
- Developed end-to-end automation: Jinja2/HTML/CSS frontend, Flask/Python/pandas backend, SQL + Azure Blob storage
- Used Azure AutoML for text classification of product categories; built bs4 + Streamlit scraper for retailer flyers

Accenture Solutions Pvt. Ltd | *Mumbai, India* *2021-06 - 2022-08*

AI Engineering Senior Analyst

- Led a team of 3 to deliver ASR in a dockerized setup; achieved ~5% accuracy improvement and higher CSAT
- Implemented monitoring and fortnightly AWS pricing reports with cost-optimization recommendations
- Designed a multi-service AWS solution for audio transcription: Transcribe, Comprehend, S3, EC2, Glacier, CodeCommit

Accenture Solutions Pvt. Ltd | *Mumbai, India* *2018-09 - 2021-05*

AI Engineering Analyst

- Built a custom ASR model via transfer learning on ~4000 hours of raw audio; improved accuracy/performance
- Delivered text analytics: Emotion/Sentiment (BERT TL), document similarity (doc2vec, WMD, LSI)
- Implemented entity extraction in queries; mapped SQL data to Neo4j with graph visualization
- Enhanced recommendations by reducing space complexity; executed JMeter load tests for scalability
- Served as SPOC for the ASR project; drove code reusability and customer-appreciated improvement

EDUCATION

National Institute of Technology, Hamirpur (NIT Hamirpur) *2014-08 - 2018-06*

B.Tech. in Electronics & Communication Engineering | GPA: 8.20

CERTIFICATIONS

Deep Learning Specialization

Coursera | View Certificate

Deep Learning

NPTEL (IIT Madras) | View Certificate

Introduction to TensorFlow for AI, ML, and DL

Coursera | View Certificate

ML0101EN: Machine Learning with Python—A Practical Introduction

edX (IBM) | View Certificate

PUBLICATIONS & PATENTS

[Patent] Textual Entailment| View Patent

US20210110277A1. Status: Published

HOBBIES & INTERESTS

Traveling and exploring places, Listening to music, Chess, Badminton, and Table Tennis