

Aditya Kumar Pandey

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[GitHub](#) | [Linkedin](#) | [Portfolio](#)

About

AI/ML Engineer

As an AI/ML Engineer, I specialize in crafting innovative solutions at the nexus of artificial intelligence and machine learning. With expertise in NLP and MLOps, coupled with proficiency in Python, TensorFlow, PyTorch, and Microsoft Azure, I am skilled in developing, deploying, and managing ML models, emphasizing MLOps best practices. My expertise includes data preprocessing, model training, deployment, and monitoring. I am a strong advocate for automation, version control, and CI/CD pipelines to enhance model governance. I am seeking opportunities to contribute to transformative AI initiatives.

Skills

Relevant Coursework: Artificial Intelligence, Artificial Neural Networks, Machine Learning, Data Mining, Deep Learning, DBMS, Data Structures, Object Oriented Programming in Java, Software Engineering, Computer Networks, IOT

Programming Language: Java, JavaScript, Python

Libraries: Django, PyTorch, React js, HTML, CSS, Numpy, Matplotlib, Seaborn, scikit-learn

DBMS: SQL

Tools / Packages / Technologies: Tableau, MS Excel, Figma, Latex, Microsoft Azure, Generative AI

Education

Banaras Hindu University

MCA

CGPA: 8.4

Tilkhamanji Bhagalpur University

BCA

Percentage: 70.39

Varanasi, UP, India
Dec 2022 - July 2024

Bhagalpur, Bihar, India
April 2017- May 2020

Experience

Aavaaz.AI

AI Engineer

- Spearhead the development of an end-to-end machine translation project at Aavaaz.AI, focusing on speech recognition using NLP techniques.
- Design and implement a web application aimed at bridging language barriers between patients and doctors, enabling seamless communication during medical consultations.

Remote

April 2024 - Present

YHills Edutech Pvt. Ltd.

Machine Learning Intern

- Used different machine learning techniques to forecast if people received H1N1 vaccines during the 2009 epidemic, based on their backgrounds, opinions, and health behaviors
- Helped understand why people choose to get vaccinated by analyzing their data, and contributed to creating effective strategies to encourage vaccination during health emergencies.

Remote

March 2023 - May 2023

Projects

Research on KU-HAR Dataset | [Link](#) | Python, TensorFlow RNN, CNN, LSTM, BI-LSTM, GRU

July 2023

- Researched the KU-HAR Dataset, applying RNN, CNN, LSTM, BI-LSTM, and GRU models for Human Activity Recognition (HAR).
- Developed and implemented a robust HAR system using accelerometer and gyroscope sensors, achieving a remarkable 99.31% average training accuracy with advanced deep learning techniques.

Anime Image Generation | [Link](#) | DCGANs, PyTorch, GPU, OpenCV

Jan 2024

- Developed an academic project that employed DCGAN for anime-style image generation.
- Utilized GANs to synthesize characters from datasets, blending realism and artistic flair, contributing to the evolution of anime artistry.

Human Emotion Classification | [Link](#) | PyTorch, Python, Multinomial Naive Bayes, Logistic regression, Random Forest, SVM, LSTM

Feb 2024

- Developed an academic project that employed DCGAN for anime-style image generation.
- Utilized GANs to synthesize characters from datasets, blending realism and artistic flair, contributing to the evolution of anime artistry.

Amazon Customer Reviews Sentiment Analysis | [Link](#) | Python, Pandas, NumPy, Matplotlib, Seaborn, NLTK, VADER, Huggingface Transformers

March 2024

- Analyzed Amazon customer reviews dataset using Python libraries including pandas, numpy, matplotlib, seaborn, and nltk.
- Employed exploratory data analysis (EDA) and natural language processing (NLP) techniques to evaluate sentiments using VADER and a pre-trained Hugging Face RoBERTa Transformer model, showcasing adeptness in data analysis, NLP, and model integration.

Workshops/Certifications

- Five-day workshop on artificial intelligence, machine learning, and deep learning. - NIT Warangal
- Seven-day Workshop on Soft Skills Training and Personality Development - Banaras Hindu University
- NIWC (National Instructional Workshop on Code-Based Cryptography) 2023 Workshop - IIT BHU, Varanasi.
- Effective Speaking: Master Public Speaking and Presentation Skills - upGrad.

Extra Curricular Activities

- Training and Placement Representative at MCA, Department of Computer Science, Banaras Hindu University.
- Classroom Representative at MCA, Department of Computer Science, Banaras Hindu University.

Volunteer, Career Guidance Training and Placement Cell (CGTPC), BHU, Varanasi

- Coordinated career guidance workshops and training sessions for students.
- Facilitated networking opportunities by organizing career fairs and employer meet-and-greets.
- Assisted in developing resources and materials for career development programs.
- Contributed to the overall mission of CGTPC to enhance student employability and career success.