

CHANDAN KUMAR

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AI/ML Engineer with expertise in Python, NLP, and GenAI, building AI pipelines, integrating LLMs, and developing predictive models and conversational AI solutions.

Technical Skills

Languages & Libraries: Python, Pandas, NumPy, Matplotlib, Scikit-learn, TensorFlow, NLTK

AI/GenAI: LangChain, RAG, Prompt Engineering, OpenAIEmbeddings

Web & API Development: Flask

Databases: SQL, Pinecone

Data Structures Algorithms: Basic DSA

Programming Paradigms: (OOPs)

Development Tools: VS Code

Version Control: Git, GitHub

Work Experience

TechDremity

June 2025 – Present

AI/ML trainee

- Developed an AI-powered Natural Disaster Prediction System with two phases:
 - * Phase 1: Developed models for earthquake, flood, hurricane prediction, and Yolov detection.
 - * Phase 2: Integrated models into a Flask server with API design and a web application with frontend development, backend integration, API testing, and chatbot integration.
- Designed and implemented a conversational AI chatbot using LangGraph, RAG, and Pinecone, featuring:
 - * Advanced knowledge retrieval capabilities.
 - * Context-aware response generation powered by LangChain and OpenAI Embeddings.

Webuters Technologies Private Ltd

Feb 2025 – May 2025

Artificial Intelligence Intern

- Conversational AI Development: Designed and developed conversational chatbots using Langchain.
- API Development: Built Flask API for seamless integration with chatbot applications.

Unified Mentor Private Ltd

Dec 2024 – Feb 2025

Machine Learning Intern

- Predictive Modeling for E-commerce Customer Purchase Behavior:
 - * Data Preprocessing, Feature Engineering and multicollinearity.
 - * Machine Learning Modeling: Trained and compared LightGBM, GradientBoostingClassifier, and RandomForestClassifier models.
- Uber Ride Analytics Dataset 2024:
 - * Analyzed a comprehensive dataset of 148,770 Uber bookings, providing insights into ride-sharing operations, customer behavior, and revenue streams.
 - * Developed data visualizations and analytics models to identify key trends and patterns in booking patterns, vehicle performance, and customer satisfaction metrics.
 - * Used data-driven insights to inform business decisions, optimize ride-sharing operations, and improve customer experience, addressing business problems such as reducing cancellations and increasing revenue.
- Predict Customer's Retention:
 - * Developed churn prediction model using 64,374 customer records.
 - * Evaluated model performance on unseen data for accurate insights.
 - * Informed data-driven decisions to optimize customer retention strategies.

Education and Certifications

ICT Academy IIT Kanpur

Dec 2023 – Dec 2024

Advance Certification in Artificial Intelligence and Machine Learning

RTC Institute Of Technology

2013 – 2017

Mechanical Engineering - CGPA - 8.1

Ranchi