

# HANSHIKA

## AI/ML Engineer & Data Analyst

hanshikathukral8@gmail.com | +91 9211383047 | Delhi, India | github.com/hanshika

### PROFESSIONAL SUMMARY

Results-driven AI/ML Engineer with **1.5+ years** experience building intelligent systems, scalable data pipelines, and automation solutions. MCA (AI/ML) candidate at Amity University with **91% GPA**. Expertise in machine learning, deep learning, cloud platforms (AWS), and BI tools. Proven impact: **95% model accuracy, 40% cost optimization, 1M+ daily API requests**.

### WORK EXPERIENCE

#### AI/ML Engineer & Data Analyst

WishNew Wellness | New Delhi | Jun 2023 – Present

##### Machine Learning & AI Development

- Developed ML models (TensorFlow, PyTorch) achieving **95% accuracy** in predictive analytics and customer behavior forecasting
- Led migration to AWS SageMaker, achieving **40% cost reduction** and scalability for **1M+ daily predictions**
- Implemented computer vision algorithms improving detection accuracy by 25%; built recommendation systems increasing engagement by 35%

##### Backend Development & APIs

- Built REST APIs (Flask, FastAPI) serving **1M+ requests/day** with 99.9% uptime; optimized response time by 35% using Redis caching
- Designed database schemas (PostgreSQL, MongoDB) and optimized queries for high-performance applications

##### Data Engineering & Analytics

- Architected ETL pipelines (Spark, Airflow) processing **500M+ daily records** with 20% cost optimization and **99.5% data accuracy**
- Developed executive dashboards (Tableau, Power BI) and automated MIS reporting, reducing manual effort by 60%

##### AI Automation & Operations

- Designed AI workflows using LLMs (GPT-4, Claude) for document processing and invoice generation, reducing manual effort by **70%**
- Built NLP chatbots improving customer response time by 70%; managed digital marketing analytics driving data-informed strategies

### SKILLS

Languages:	Python, SQL, JavaScript
AI/ML:	TensorFlow, PyTorch, Scikit-learn, OpenCV, BERT, Transformers, NLP, Computer Vision, Neural Networks
AI Tools:	LLMs (GPT-4, Claude), LangChain, Prompt Engineering
Data/Cloud:	AWS (SageMaker, S3, Lambda), Spark, Airflow, Docker, ETL/ELT, Data Engineering
Databases:	PostgreSQL, MongoDB, Redis
Tools:	Flask, FastAPI, Tableau, Power BI, Git, Hypothesis Testing, Regression Analysis

### KEY PROJECTS

#### Customer Behavior Prediction System | Python, TensorFlow, AWS SageMaker

- Ensemble ML model (LSTM + Random Forest) with 92% accuracy; real-time inference for 50K+ daily predictions on AWS

#### Real-time Data Pipeline | FastAPI, Spark, Airflow, Docker

- Automated ETL handling 5M+ records daily with 99% accuracy; containerized with Docker and Airflow orchestration

#### NLP Sentiment Analysis Platform | BERT, Transformers, Python

- Multi-language sentiment analysis processing 100K+ social posts daily with real-time monitoring dashboard

#### Computer Vision QC System | PyTorch, OpenCV, CNN

- Defect detection with 96% accuracy; edge computing solution reducing inspection time by 60%

#### AI Document Automation | Python, GPT-4 API, LangChain, Flask

- Intelligent document processing and invoice generation using LLMs, reducing manual work by 70%

## EDUCATION

---

### **MCA in AI & Machine Learning**

Amity University, Noida | 2023 – May 2026 | **GPA: 91%**

*Coursework:* Deep Learning, Neural Networks, NLP, Computer Vision, MLOps, Statistics, Data Engineering

### **Master's Diploma in Business Data Analytics**

YMCA Education Center, New Delhi | 2023-2024

### **BA Economics & Political Science**

College of Vocational Studies, New Delhi | 2020-2023

## ADDITIONAL INFORMATION

---

**Languages:** English (Fluent), Hindi (Native) | **GitHub:** [github.com/hanshika](https://github.com/hanshika) | **Availability:** Immediate, Open to relocation