

Umar

AI Developer

Professional Summary

Umar is an Innovative AI developer with 7 years of experience in designing and implementing cutting-edge machine learning and deep learning solutions. Skilled in developing AI-powered applications that solve complex business problems and drive technological advancements.

Work Experience

Following are the companies and associated roles that Umar has worked at:

Senior AI Developer | NeuralTech Innovations

February 2021 - Present

- Led the development of a state-of-the-art natural language processing (NLP) system for sentiment analysis and entity recognition
- Using PyTorch and Hugging Face libraries Umar implemented and fine-tuned transformer-based models
- Developed computer vision algorithms for real-time object detection and tracking
- Collaborated with data engineers to build efficient data pipelines for model training and deployment
- Tech Stack that Umar is proficient at is Python, PyTorch, TensorFlow, Hugging Face, OpenCV, Docker, Kubernetes

Machine Learning Engineer | CogniSys Solutions

July 2018 - January 2021

- Developed and deployed machine learning models for predictive maintenance in industrial settings
- Implemented time series forecasting models using LSTM and Prophet
- Created a recommendation system using collaborative filtering and matrix factorization techniques
- Optimized model performance and reduced inference time using TensorFlow Lite
- Tech Stack that Umar is proficient at is Python, TensorFlow, Keras, Scikit-learn, PySpark, AWS SageMaker

AI Research Scientist | FutureTech AI Labs

September 2015 - June 2018

- Conducted research on reinforcement learning algorithms for autonomous systems
- Implemented and evaluated various RL algorithms including DQN, PPO, and A3C
- Developed simulation environments for training and testing AI agents
- Published research papers in top-tier AI conferences and journals
- Tech Stack that Umar is proficient at is Python, TensorFlow, OpenAI Gym, ROS, CUDA

Junior Data Scientist | Intellidata Systems

August 2013 - August 2015

- Assisted in developing machine learning models for customer churn prediction and fraud detection
- Implemented feature engineering techniques to improve model performance
- Conducted exploratory data analysis and created visualizations using matplotlib and seaborn
- Collaborated with the backend team to integrate ML models into production systems
- Tech Stack that Umar is proficient at is Python, Scikit-learn, Pandas, NumPy, PostgreSQL, Git

Skills

Following is a highlight of skills Umar is expert at:

- Machine Learning: Supervised Learning, Unsupervised Learning, Reinforcement Learning
- Deep Learning: CNNs, RNNs, LSTMs, Transformers
- Natural Language Processing: BERT, GPT, Named Entity Recognition, Sentiment Analysis
- Computer Vision: Object Detection, Image Segmentation, Face Recognition
- Libraries/Frameworks: TensorFlow, PyTorch, Keras, Scikit-learn, Hugging Face
- Big Data: Apache Spark, Hadoop
- Cloud Platforms: AWS (SageMaker), Google Cloud (AI Platform)
- Languages: Python, R, SQL
- Version Control: Git
- Containerization: Docker, Kubernetes

Education

Ph.D. in Artificial Intelligence AI Institute of Technology, Graduated 2013

Master of Science in Computer Science State University, Graduated 2010

Publications and Patents

- "Advancements in Reinforcement Learning for Autonomous Systems" - International Conference on Machine Learning (ICML), 2017
- "Novel Approaches to Transfer Learning in NLP" - Conference on Neural Information Processing Systems (NeurIPS), 2016
- Patent: "Efficient Method for Real-time Object Detection in Edge Devices" - Patent No. US 10,XXX,XXX