

# WALEED AHMED

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## PROFILE

Experienced Machine Learning and AI Engineer with expertise in data engineering, scientific computing, and advanced analytics. Proficient in Python data science ecosystem (NumPy, Pandas, SciPy) with a strong background in developing end-to-end machine learning solutions and optimizing data pipelines.

## PROFESSIONAL EXPERIENCE

### Software Dads

03/2024 – present

Machine Learning / AI Engineer

- Optimized deep learning models using NumPy and SciPy for numerical computing, increasing accuracy by 15%.
- Automated data pipelines with DVC, MLflow, and CI/CD, reducing deployment time by 30%.
- Implemented advanced data preprocessing and feature engineering using Pandas.
- Developed scalable MLOps workflows on AWS/Azure, ensuring robust AI model deployment.

### NEK Services

01/2018 – 01/2024

Full-Stack Web Developer

- Engineered RESTful APIs in .NET with advanced data handling capabilities
- Developed data-driven interfaces using React.js, enhancing user experience
- Optimized MySQL database performance, reducing query response times by 20%
- Implemented secure authentication mechanisms with OAuth

## PROJECTS

### AI Coding Agent

Coding Agent with Reflection Pattern

- Enhanced code quality by 30% by ensuring adherence to best coding practices and optimizing performance.
- Cordinated and optimized, production-ready code across multiple languages streamlined coding.
- Customizes solutions to fit your specific needs and boosts productivity.
- [https://github.com/Ahmed546/AI\\_coder\\_agent](https://github.com/Ahmed546/AI_coder_agent)

### Meds Bot – AI Medical Chatbot

Evaluating symptoms reported by users

- Developed a medical chatbot to help users analyze symptoms and identify possible conditions.
- Analyzed 10,000+ user queries, improving early symptom detection.
- Designed and implemented a highly efficient workflow system that automated image processing tasks, resulting in a reduction in processing time for medical imaging applications.
- Integrated Pinecone for fast medical information retrieval.
- <https://github.com/Ahmed546/medical-chatbot>

### Chicken Disease Classification

Identifying chicken diseases from image data

- Built a CNN model with 85% accuracy for chicken disease detection.
- Processed 30,000+ images to train a deep-learning model.
- Enhanced data preprocessing, improving model performance by 20%.

- Integrated DVC for version control and deployed using CI/CD pipelines on AWS.
- <https://github.com/Ahmed546/Chicken-diseases-classification>

## SKILLS

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### Languages:

- Python, C#, SQL, JavaScript, React

### Machine Learning & AI:

- NLP (Hugging Face Transformers, LangChain, LlamaIndex)
- Model Validation, Data Processing, Optimization, Testing
- GenAI Frameworks (CrewAI, AG2)
- LLMs (Fine tuning, OpenAI, DeepSeek)
- Keras, Scikit Learn, Natural Language Processing, Regression, Numpy, Pandas, Matplotlib
- Performance Monitoring, Deep Learning Architectures

### MLOps & DevOps:

- DVC, MLflow, CI/CD Pipelines
- AWS, Azure, Docker, FastAPI, Streamlit.io
- Model Deployment & Scaling
- Docker, Git, GitHub Actions

### Full-stack development:

- Python, C#, SQL, JavaScript
- React.js, Next.js, .NET Core, MySQL
- RESTful APIs, OAuth Authentication
- Object-Oriented Programming

### Optimization techniques:

Gradient Descent, Genetic Algorithms, Collaborative Development

## EDUCATION

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### Bachelor's Degree in Information Technology

University of the Punjab(PUCIT)

2014 – 2018

Lahore, Pakistan