

# MUHAMMAD AHMAD NADEDEM

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## FULL-STACK DEVELOPER | AI/ML ENGINEER | DATA SCIENTIST

Aspiring IT professional with a strong foundation in software development, machine learning and data science, eager to learn technical skills and problem-solving techniques and always try to contribute in innovative projects that bring advancement in the field of technology

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## SKILLS

**Frontend** HTML, CSS, Javascript , React JS, Tailwind CSS

**Backend** Flask, python

**Miscellaneous** Machine learning, Deep learning , AWS EC2, jupyter Notebook, Docker, Kubernetes

**Version control** Git/GitHub

**Data pipelines** jenkins, GitHub Actions

**LLMs** Open Ai (gpt), Llama, Hugging Face transformers, gemenie

**Frameworks and libraries** Flask, pandas, numpy, matplotlib, Seaborn, Mlxtend ,Scikit-learn, tensorow, Keras etc

**Soft skills** communication skill, team work, motivational speaker, story teller

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## PROFESSIONAL EXPERIENCE

**Mindbridge, Lahore**

**CSR**

**November 2022 - December 2023**

- Customer Support Representative (CSR) at Mindbridge (Pvt Ltd) from November 2022 to December 2023.
- Handled user tickets for the Uber Eats project, focusing on the EMEA region.
- Provided efficient and effective solutions to customer inquiries and issues, ensuring high levels of customer satisfaction

**Octanet, Bengaluru**

**Python Dev-Intern**

**May 2024 - August 2024**

- Collaborated with the development team to integrate and enhance APIs, improving functionality and performance for various applications.
- Debugged and resolved issues in existing API implementations, ensuring reliable data exchange and communication between systems.
- I worked with backend technologies, including Scikit-learn and Flask, to support the development of web applications and services.
- Utilized Python libraries such as NumPy, Pandas, and Selenium to analyze data and develop data-driven solutions.
- Participated in team meetings to discuss project requirements and provide updates on integration progress, fostering effective communication within the team.

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## PERSONAL PROJECTS

**Discord Bots**

- Developed and deployed interactive Discord bots to enhance server functionality and user engagement.
- Automated tasks such as moderation, custom commands, and real-time notifications using discord.py.
- Integrated data-driven responses and optimized bot performance for seamless operation.
- Ensured compatibility and reliability across multiple servers, improving community management.

### **House Price predictor**

- Designed and implemented a machine learning model to predict house prices based on key factors such as location, size, and features.
- Utilized Python libraries like pandas, scikit-learn, and matplotlib for data preprocessing, model training, and result visualization.
- Conducted feature engineering and optimized the model for better accuracy and reliability.
- Developed an interactive interface for users to input data and receive real-time price predictions.

### **Sentiment Analysis**

- Developed a machine learning-based system to analyze sentiment from social media platforms, categorizing text as positive, negative, or neutral.
- Processed large datasets using libraries like pandas, numpy, and nltk for text preprocessing and tokenization.
- Built and fine-tuned models using scikit-learn and TensorFlow to achieve high accuracy in sentiment classification.
- Visualized sentiment trends with matplotlib and seaborn to provide actionable insights.
- Applied Natural Language Processing (NLP) techniques to enhance sentiment detection and context understanding.

### **Spam | Ham Filter**

- Developed a spam detection system to classify emails or messages as spam or ham (non-spam) using machine learning techniques.
- Preprocessed textual data using Natural Language Processing (NLP) techniques like tokenization, stop-word removal, and stemming.
- Implemented classification models such as Naive Bayes and Logistic Regression using scikit-learn for efficient spam detection.
- Evaluated model performance with metrics like precision, recall, and F1-score to ensure accuracy and reliability.
- Designed an easy-to-use interface for users to input messages and instantly receive spam/ham classification results.

### **Portfolio Website**

- Designed and developed a personal portfolio website to showcase skills, projects, and professional achievements.
- Built the website using modern web development technologies, including HTML, CSS, JavaScript, and React.js for a dynamic and responsive user experience.
- Integrated an AI-powered chatbot to engage visitors, provide instant information, and answer frequently asked questions about projects and skills.
- Optimized the website for fast load times and seamless navigation using best practices in UI/UX design.
- Implemented responsive design principles to ensure compatibility across devices, including desktops, tablets, and mobile phones.
- Deployed the website using GitHub Pages or a cloud platform for reliable access and scalability.
- Continuously maintained and updated the site to reflect new projects and experiences, ensuring it stays up-to-date and professional.
- Incorporated analytics tools to track visitor engagement and improve user experience based on feedback.

### **AI Chatbot**

- Created an AI chatbot using OpenAI's language model to simulate human-like conversations.
- Integrated the chatbot into applications for interactive user engagement and support.
- Leveraged OpenAI's API to enable dynamic responses and conversational flow.
- Designed the chatbot for versatile use cases, including FAQs and customer interaction.

### **Whatsapp automation**

- Developed two WhatsApp automation bots using Selenium and PyWhatKit for efficient communication.
  - Automated bulk messaging to send personalized messages to multiple recipients simultaneously.
  - Enabled features like scheduled messaging, real-time monitoring, and user-friendly operation.
  - Optimized the bots for reliability and ease of use, streamlining repetitive communication tasks.
  - Designed to enhance productivity by ensuring timely and large-scale message delivery.
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## **EDUCATION**

### **GRADUATION**

**October 2023 - 2027(expected)**

**Govt Islamia college civil lines, lahore**

**Lahore Bachelor of Information and technology | BsIT |**

CGPA 2.91/4

### **INTERMEDIATE**

**November 2020 - October2022**

**Govt Associate college for boys, Shalimar Town**

**FSc. pre eng**

marks 651/1100