




Ibrahim Muhammad Khan

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Personal Summary

Software Engineering student specializing in AI, machine learning, and data-driven solutions. Experienced in Python automation, NLP applications, and full-stack prototyping with a focus on efficient, privacy-conscious tools. Passionate about leveraging data science techniques to extract meaningful insights and drive informed decision-making.

Education

National University of Computer and Emerging Sciences, Chiniot-Faisalabad, Pakistan 2022 – 2026
Bachelor of Science in Software Engineering

Technical Skills

Machine Learning & AI: Large language models, LangChain, HuggingFace, Whisper
Data Science & Analysis: Python (Pandas, NumPy, scikit-learn), Data Cleaning, EDA, Data Visualization (Matplotlib, Seaborn), Machine Learning Models
NLP & Text Mining: TF-IDF, PMI, Custom Pipelines
Cloud Platforms: AWS basics, Cloud Deployment
Programming: Python, Java, JavaScript
Web Scraping: BeautifulSoup, Selenium
Web Development: HTML, CSS, JavaScript, React.js basics
Databases: Oracle, MySQL, MongoDB
Tools & Platforms: GitHub, VS Code, Jupyter Notebook

Experience

Co-Founder - Big Bros Marketing Agency

- Co-founded and led a marketing agency specializing in real estate and project marketing.
- Managed client relations, strategic marketing campaigns, and sales operations.

Marketing and Sales Head - Nobles Enclave & Model City Executive Block

- Directed marketing initiatives and sales strategies for two major housing projects.
- Achieved significant lead generation and enhanced brand visibility through customized campaigns.

Selected Projects

- **LinkedIn Post Generator:** Offline post generator using a large language model and LangChain, built for privacy.
github.com/Ibrahimrai/LinkedIn-Post-Generator
- **Medical Chatbot:** Open-source chatbot using a large language model optimized for CPU machines.
github.com/Ibrahimrai/Medical-Chatbot-on-CPU-Machine
- **EduConnect Pakistan – Tutoring Platform:** Full-stack platform for student-tutor matchmaking, bookings, reviews, and dashboards using Node.js (Express), React, MongoDB, and JWT authentication.
github.com/Ibrahimrai/EduConnect-Pakistan
- **SkillSwap Platform – Freelance Marketplace:** Built a MERN-based freelance marketplace with role-based dashboards (client, freelancer, admin), project bidding, contract management, and notifications.
github.com/Ibrahimrai/SkillSwap-MERN-Platform
- **Academic Data & EDA Tools:** Developed automation pipelines for data cleaning, EDA, and academic metadata scraping (Python/Java).
github.com/Ibrahimrai/Data-Cleaning-and-EDA, github.com/Ibrahimrai/web-scraping-using-python
- **Titanic Survival Prediction:** Applied machine learning algorithms to predict passenger survival on the Titanic dataset, utilizing data preprocessing, feature engineering, and model evaluation techniques.
- **Stock Price Prediction Model:** Developed a predictive model using linear regression to forecast stock prices based on historical data, implementing data cleaning, feature selection, and model validation.

Areas of Interest

Machine Learning and AI, Data Science and Analytics, Predictive Modeling, Web Scraping and Automation, Natural Language Processing, Full-stack Development (React, Node basics)