

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
- **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)