

MUDASIR (AI Engineer / Multimodal AI Developer / Full-Stack & Mobile Developer)

Email: mudasir13cs@gmail.com
Mobile: +82 (102) 503-0971 / +92 (304) 251-5191
Linkdin: <https://www.linkedin.com/in/mudasir-sayed/>
Portfolio: <http://mudasir13cs.github.io/>
GitHub: <https://github.com/mudasir13cs/>
Hugging Face: <https://huggingface.co/mudasir13cs>

Address: 126-45 Sangdo-dong
CNIC: 41203-1813635-5
Passport: AL0416352
Date & Place of birth: 20-02-1992, Sindh, Pakistan.
Nationality: Pakistani

Personal Profile

Driven, goal-oriented team player eager to apply software engineering academic and professional training and experience towards launching a successful career with a progressive company that rewards initiative and superior performance with long-term opportunities for professional growth

Technical Skills/Computer Programs

- ❖ **Machine Learning & AI:** Python, TensorFlow, Keras (basic ML models, neural networks, data preprocessing, training), Large Language Models (LLMs), LLM **fine-tuning**, prompt engineering, model evaluation
- ❖ **Computer Vision & Multimodal AI:** Computer Vision, image processing, object detection, YOLO-based detection and segmentation (YOLOv5/YOLOv8), instance segmentation, Vision-Language Models (VLMs), **VLM fine-tuning**, image captioning, multimodal AI systems
- ❖ **AI Automation & Workflow Systems:** AI pipeline development, **n8n automation**, API orchestration, webhook-based automation, AI agents and workflow integration
- ❖ **Audio & Speech AI:** Speech-to-Text (STT), Text-to-Speech (TTS), OpenAI **Whisper-based** speech recognition, audio transcription, audio preprocessing, voice AI integration, speech data processing.
- ❖ **Data Analysis:** Python (NumPy, Pandas), working with datasets, data visualization
- ❖ **Web Development:** Python, PHP, NodeJs, HTML5, Bootstrap, JavaScript, CSS, Angular, and JQuery.
- ❖ **Mobile Development:** Objective-C, Swift, Flutter, Ionic, AngularJS, Native (iOS, Android)
- ❖ **Database Management:** MySQL, SQLite, Vector Databases, and Graph Databases.

Publications

- ❖ Syed Mudasir, Abdul Waheed Agha, Syed Muzamil Hussain, and Sun-Tan Chung, "Field-Adaptive Dense Retrieval of Structured Documents," Journal of the Korea Multimedia Society, Vol. 28, No. 8, pp. 1001–1014, Aug. 2025. <https://www.dbpia.co.kr/journal/articleDetail?nodeId=NODE12352544>
- ❖ Tran, Q.-B.-H.; Waheed Agha, A.; Chung, S.-T. "Robust Text-to-Cypher Using Combination of BERT, GraphSAGE, and Transformer (CoBGT) Model." Applied Sciences, Vol. 14, No. 17, article 7881, Sept. 4 2024. DOI: 10.3390/app14177881. <https://www.mdpi.com/2076-3417/14/17/7881>

Work and Experience

Full Stack Developer (Part-time)

Cublick Digital Co., Ltd.,

03/2024 to current

Seoul, South Korea

- ❖ Developed Android digital signage, mobile, and web applications using Flutter, AngularJS, and native Android (Java, Kotlin).
- ❖ Built scalable backend systems with Node.js, NestJS, and MongoDB.
- ❖ Integrated AI features and APIs, including Whisper speech recognition and data-driven content systems.
- ❖ Created automation pipelines with n8n for social media and blog automation.
- ❖ Delivered end-to-end full-stack solutions, optimizing UI/UX, APIs, and platform performance.

Research Assistant

Soongsil University.

03/2024 to 01/2026

Seoul, South Korea

- ❖ *Developed and optimized ML and generative AI models (GANs, Transformers) for research applications.*
- ❖ *Worked with LLMs (GPT-4, GPT-3, LLaMA, BERT) for experimentation, fine-tuning, and evaluation.*
- ❖ *Implemented computer vision models including YOLO-based object detection and segmentation.*
- ❖ *Built AI automation workflows with n8n, integrating APIs and AI pipelines.*
- ❖ *Conducted ML research using data preprocessing, feature engineering, and hyperparameter tuning.*
- ❖ *Served as Teaching Assistant and Grader for Python, web development, and database courses.*

Team Lead & Senior Mobile Application Developer,

06/2023 to 02/2024

Progatix

Karachi, Pakistan

- ❖ Led a cross-functional development team using Agile to deliver mobile and backend features on time.
- ❖ Developed native and hybrid mobile applications using Flutter and iOS (Objective-C, Swift).
- ❖ Built RESTful APIs with NestJS to support mobile backend services.
- ❖ Developed cross-platform apps with Flutter, maintaining a unified codebase.
- ❖ Integrated Google/Facebook login, mapping services (Google Maps, Apple Maps, Mapbox), and payment gateways (PayPal, Stripe) for authentication and transactions.

Sr. Full Stack Software Developer

12/2015 to 05/2024

Wiztech Pakistan (Pvt.) Ltd.,

Karachi, Pakistan

- ❖ Developed web and mobile applications using Laravel, CodeIgniter, Flutter, Ionic, AngularJS, and Native iOS (Objective-C, Swift).
- ❖ Built backend APIs and web services using PHP frameworks.
- ❖ Created native and hybrid mobile apps with integrations including social login, maps, payment gateways, and BLE device connectivity.
- ❖ Contributed to multiple platforms including procurement systems, loyalty apps, attendance systems, school management, and e-commerce solutions.

Software Engineer

02/2015 to 11/2015

Verge Systems PVT Ltd.,

Hyderabad, Pakistan

- ❖ Developed web applications using WordPress and CodeIgniter.
- ❖ Integrated Barcode Reader and RFID solutions into enterprise systems.
- ❖ Contributed to the development of fintech and ERP applications for financial and loan management.
- ❖ Built and maintained financial management, loan management, and microfinance systems with reporting and system integrations.
- ❖ Developed websites and platforms for organizations including SAFCO Support Foundation, CSSP, AHAN, and MDCPK.

Education

Master of Science: AI Convergence *CGPA(4.28/4.5)* **2026**
Soongsil University, Seoul, South Korea.

Master of Science: Computer Science **2018**
Muhammad Ali Jinnah University, Karachi, Pakistan

Bachelor of Computer Science, **2015**
University of Sindh, Jamshoro, Pakistan

References are available on Request