

Syed Owais Nawaz

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EDUCATION

Queensland University of Technology

Master of Cyber Security

Brisbane, Australia

February 2026 – Present

Jamia Millia Islamia

Bachelor of Technology in Computer Engineering - CGPA: 9.08

New Delhi, India

August 2021 – June 2025

- **Relevant Coursework :** Data Structures and Algorithms, Object-Oriented Programming, Computer Networks, Operating Systems, Design and Analysis of Algorithms, Database Management Systems, Software Engineering, Computer Vision, Computer Networks, Compiler Design, Machine Learning, Natural Language Processing (NLP), Network Security, Deep Learning

Don Bosco School

Senior Secondary Education - 94.6%

New Delhi, India

May 2020 – April 2021

- **Relevant Coursework :** Physics, Chemistry, Mathematics, English, Computer Science

TECHNICAL SKILLS

- **Languages:** Python, C/C++, Java, JavaScript, TypeScript, HTML/CSS
- **Libraries:** Pandas, NumPy, Matplotlib, Scikit-Learn, TensorFlow, Keras, PyTorch, OpenCV, Streamlit
- **Frameworks:** React, Next.js, Express.js, Flask, Material-UI
- **Databases:** MySQL, MongoDB
- **Developer Tools:** Node.js, Git/GitHub, Docker, AWS

EXPERIENCE

Research Intern

Mar 2025 – June 2025

Jamia Millia Islamia - Title: Real-time AI-Generated Voice Detection

- Curated and preprocessed a 581 K-sample audio corpus; resampled to 16 kHz mono, applied noise reduction, amplitude normalization, and 1-second segmentation
- Extracted 20-dimensional MFCCs, spectral and chroma features; applied Gaussian Naive Bayes for likelihood estimation and NMF for dimensionality reduction
- Trained and optimized CatBoost, XGBoost, Random Forest, and KNN classifiers via Optuna under 10-fold cross-validation, achieving a top CatBoost model with **93%** accuracy and **0.002s** inference per 1s clip.

Software Developer Intern

Jan 2025 – Feb 2025

Sprintx Solutions | Certificate

- Contributed to the development of Slate, a document and school management system, focusing on frontend implementation using React.js.
- Designed and optimized MySQL database queries, improving system performance and data retrieval speed.
- Engineered backend integration for automated email notifications using SMTP-based services, including configuration of server-side modules to trigger transactional and alert emails.
- Collaborated on RESTful API design to enable secure CRUD operations and data binding between the React frontend and MySQL database.

Web Developer

June 2024 – July 2024

ALD Car Rentals | Certificate

- Designed and developed the frontend of the company website using React.js, creating reusable components and leveraging hooks for efficient state management.
- Built backend services in Node.js and Express, integrating with a MySQL database to handle booking logic and customer management.
- Integrated essential features including booking, customer management and payment features

PROJECTS

Deepfake Detection System | *Python, PyTorch, OpenCV, ResNeXt, LSTM, Streamlit* | Source Code

- Built a deepfake detection system using PyTorch with CNNs for spatial feature extraction and LSTMs for temporal sequence analysis.
- Preprocessed video datasets by extracting frames, detecting faces, and creating a custom dataset of cropped faces.
- Employed ResNeXt50 for spatial feature extraction and LSTMs for sequence analysis to classify videos as fake or pristine.
- Achieved an accuracy of **93.78%** on a mixed dataset, including videos from YouTube, FaceForensics++, and the Deepfake Detection Challenge dataset

Duplicate Question Predictor | *Pandas, NumPy, Scikit-Learn, Tensorflow, Streamlit* | Source Code

- Built a duplicate question pair detection system using both Machine Learning and Deep Learning models
- Utilized Bag-of-Words and advanced feature engineering to represent text data, and applied various machine learning algorithms, including the Random Forest Classifier, for classification.
- Employed deep learning with a BiLSTM model, achieving an accuracy of **88%** for better prediction accuracy.

VaultGuard | *NextJs, TypeScript, Appwrite, Plaid, Dwolla, TailwindCSS* | Source Code | Live Demo

- Developed and deployed a robust SaaS banking management platform using NextJs, TypeScript, and Appwrite for secure SSR authentication.
- Integrated Plaid and Dwolla for bank linking and funds transfer, respectively.
- Users can connect multiple bank accounts, transfer funds, view transaction history, and track spending.
- Reflects changes across all relevant pages upon connecting new bank accounts.

ACHIEVEMENTS

Amazon ML Summer School 2024

July 2024

- Immersed in advanced ML concepts under the mentorship of Amazon scientists.
- Gained valuable insights into cutting edge ML research and industry applications.

RESEARCH PUBLICATIONS

- * H. Faizvi, **S. O. Nawaz**, K. Ibrahim, F. Siddiqui, A. Siddiqui and K. Anandakumar, "A Hybrid Knowledge Graph-Deep Learning Model for Predictive Analytics in Healthcare Worker Stress Management with Cloud Environments," 2025 3rd International Conference on Self Sustainable Artificial Intelligence Systems (ICSSAS), pp. 1762-1768, IEEE, June 2025, DOI: 10.1109/ICSSAS66150.2025.11080772
- * H. Faizvi, M. A. M. Rizvi, **S. O. Nawaz**, K. Ibrahim, R. Ahmad, F. Siddiqui, "Automated Detection of Plagiarisms in Online Assessments and Source Code", Proceedings of SARC International Conference, Ambala, India, pp. 7-13, June 2025.