

Abrar Nazir

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EDUCATION

Jamia Millia Islamia, New Delhi, India	Jul 2021 - Jun 2025
Bachelors of Technology in Electronics and Communication Engineering	GPA: 8.57/10.0
Shemford Futuristic School Anantnag, J&K, India	2021
Higher Secondary School(XII)	90.8%
Kendriya Vidyalaya No. 2 AFS Srinagar, J&K, India	2019
High School(X)	90.2%

TECHNICAL SKILLS

Languages : C/C++, Python

Web Technologies : HTML/CSS, JavaScript, NodeJS, MongoDB, ReactJS

ML/AI : Tensorflow, Scrapy, PyTorch, Numpy, Pandas, Matplotlib, NLTK, Keras, CNN, Scikit-Learn, OpenCV, NLP, SVM, RandomForest, KNN, Gradient Descent, Decision Trees

Miscellaneous : Selenium, BeautifulSoup, MySQL, Git, Feature Scaling, Data Extraction, Data Visualization, Data Augmentation

RELEVANT COURSEWORK

Deep Learning, Data Structures and Algorithms, Databases, Operating Systems, Computer Networks, Natural Language Processing, Computer Vision, Computer Architecture, Linear Algebra, Discrete Mathematics, Statistical Data Analysis, Cloud Computing

EXPERIENCE

Jamia Millia Islamia, New Delhi

- Currently working on a Web Application for connecting Rescue Agencies to each other and predicting natural calamities beforehand.
- Implemented real-time location tracking using the Mapbox API, enabling agencies to update their locations in real-time.
- Integrated JWT (JSON Web Tokens) for secure user authentication and authorization.
- Predicting Natural Calamities(Floods, Droughts) by applying ML algorithms.

PROJECTS

Social App

- Developed a comprehensive social networking platform with user-friendly features, including user registration and account creation, enabling users to personalize their profiles.
- Implemented a dynamic user experience by enabling users to post content, like and comment on posts, and even like individual comments. This interactive engagement fosters community building and encourages user participation.
- Facilitated social connectivity by incorporating friend requests and real-time chat functionality, allowing users to connect with friends and engage in private conversations within the platform.

Facial Emotions Recognition

- Designed and implemented a CV model based on Convolutional Neural Networks (CNNs) using TensorFlow and Keras capable of accurately recognizing facial expressions to determine the emotional state of individuals from images and video streams.
- Optimized model hyperparameters through grid search and random search to achieve superior accuracy and efficiency.

Real time object Recognition and Tracking

- Developed an OpenCV-based system for real-time object recognition and tracking in video streams.
- Enhanced computer vision capabilities for applications such as surveillance and autonomous navigation, showcasing expertise in OpenCV and practical computer vision solutions.

Voice Assistant

- Utilized the Natural Language Toolkit (NLTK) and spaCy for natural language understanding, enabling the assistant to parse and comprehend user queries.
- Integrated text-to-speech (TTS) functionality using libraries like gTTS (Google Text-to-Speech) and pyttsx3 for generating human-like responses.

Twitter Sentiment Analysis

- Developed a sentiment analysis model using Natural Language Processing (NLP) to analyze tweets and determine the sentiment (positive, negative, or neutral) expressed by users on Twitter.
- Performed data cleaning, text normalization, and tokenization to prepare the data for analysis.

Credit Card Fraud Detection

- Conducted thorough data preprocessing, including handling missing values, scaling features, and addressing class imbalance in the dataset.
- Implemented ensemble techniques, such as stacking and bagging, to combine the strengths of multiple models for improved fraud detection accuracy.

IoT based Air Pollution Detection

- Designed and built custom IoT devices using microcontrollers (e.g., Arduino, Raspberry Pi) to collect and transmit sensor data wirelessly.
- Employed data analytics frameworks (e.g., Python, Pandas) and cloud platforms (e.g., AWS IoT Core) to process, analyze, and visualize air quality data.

ChatBot using NLP

- Developed a chatbot using Python and NLP libraries for natural language understanding and generation.
- Achieved improved user engagement and efficiency by accurately recognizing intents and extracting entities, resulting in seamless, context-aware conversations.

Fake News Detection

- Created a machine learning model to accurately identify and classify fake news articles from credible sources.
- Improved information integrity and media literacy by providing a reliable tool for identifying misinformation.

POSITIONS AND RESPONSIBILITIES

PR Head, TRS JMI Chapter

2023-Present

- Orchestrated successful PR campaigns for TRS events, boosting attendance and engagement through strategic media coverage and partnerships.
- Collaborated with industry partners, academic institutions, and potential sponsors to advance TRS's mission and initiatives.

Core Member, TEDxJMI

2023-Present

- Spearheaded the design and conceptualization of captivating visual themes and decorations that aligned with the TEDxJMI event's mission and message.
- Effectively managed the budget allocated for decorations, optimizing resources to achieve maximum impact while staying within budget constraints.

Volunteer, E-Cell JMI

2022-2023

- Assisted in coordinating various aspects of the startup event, including registration, guest management, and logistics.

Volunteer, IEEE-JMI

2022-2023

- Actively participated in IEEE-JMI's community service and outreach initiatives, aligning with IEEE's commitment to technological advancement for the benefit of society.