

BHASKAR AGARWAL

Gurugram, Harayana, 122413

☎ +91-6306528200 ✉ bhaskar.bva08@gmail.com 🔗 [linkedin.com/in/Bhaskar_Vivek_Agarwal](https://www.linkedin.com/in/Bhaskar_Vivek_Agarwal) 🌐 github.com/BhaskarBMU

Education

BML Munjal University

Bachelors of Technology in Computer Science

Aug. 2021 – Aug 2025

Gurugram, Harayana

Boys High School

ICSE, ISC

March. 2009 – April 2021

Prayagraj, Uttar Pradesh

Courseworks

- Data Structures
- Algorithms Analysis
- Artificial Intelligence
- Machine Learning
- Operating System
- Database Management
- Computer Networks
- Deep Learning

Experience

Sabudh Foundation

Data Science Intern

April 2023 – July 2023

Saket, New Delhi

- Architected and implemented an advanced NLP pipeline utilizing Databricks workflow, enabling efficient processing of 100,000+ tweets and articles.
- Leveraged Databricks' distributed computing capabilities to perform sophisticated topic modeling and sentiment analysis, resulting in a 25% reduction in pipeline output time.
- Implemented a REST API for the NLP pipeline using Databricks' MLflow, enabling real-time access to engagement scores and social media insights across internal systems

Centific Premier Hackathon

Participant

Sep 06 – Sep 22 2024

Hyderabad, Telangana

- Engineered robust user collaboration features, implemented version control systems, and developed session management functionality for active users within a complex workflow environment, enhancing team productivity and ensuring data integrity.
- Designed, created, and rigorously tested various APIs using Postman, facilitating seamless integration between different components of the system and enabling efficient data flow across the platform.
- Developed a React.js frontend for DAG workflow visualization, while implementing logging systems, metrics analysis, and dashboards in Databricks, enhancing data pipeline observability and user interaction

Projects

Sound Slice | *Flutter, Replicate API, Firebase, Deep Learning*

April 2024

- Developed a Flutter application that separates audio files into vocals, bass, drums, and other components using a deep learning model trained on the MUSDB-18 dataset
- Selected and fine-tuned the Hybrid Demucs Model for its superior SDR (8.6) and SIR (18.2), achieving 153% better SDR and 119% better SIR than the U-Net model, ensuring enhanced sound quality.

Image Forgery Detection | *Deep Learning, Streamlit*

November 2023

- Optimized image forgery detection processes through the application of deep learning techniques, utilizing the CoMoFoD dataset.
- The results yielded a significant improvement in detection speed, processing images in under 3-5 seconds each.

Doodle Room | *Flutter, Node.js, Socket.io*

June 2024

- Developed a real-time collaborative drawing application using Flutter and Node.js, enabling features such as multi-user drawing, chat functionality, random word generation, and score tracking.

Technical Skills

Languages: Python, Java, HTML/CSS, JavaScript, SQL, Dart

Developer Tools: VS Code, Eclipse, Postman, Android Studio

Technologies/Frameworks: Node, React, Flutter, MongoDB

Accomplishmens/Co-Curricular

- On Campus SIH Qualifier
- Qualified for top 100 for centific hackathon with over 2000 participants.
- Organizing Committee Member, HackBMU 5.0. A hackathon conducted by ACM club of BMU where hundreds of students participate.
- Content Head, SATA (Student Club of BMU)