

Divyanshu Bhardwaj

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SUMMARY

Postgraduate in MCA and UGC-NET qualified with a solid academic and technical foundation in computer science and emerging technologies. Deeply passionate about Artificial Intelligence, Machine Learning, and Deep Learning, with practical experience in developing predictive models, neural networks, and data analytics solutions. Skilled in programming languages with hands-on experience in web technologies, database systems, and cloud platforms. Possess strong analytical and research skills, with a deep understanding of academic and applied computing concepts. Known for delivering results through clear communication, strategic thinking, and performance-driven leadership.

SKILLS

Technical Skills: SQL, HTML, CSS, JavaScript, CSS, Python, Power bi, Artificial Intelligence, Machine Learning & Data Science, Data Manipulation, Deep Learning, Data Visualization,

Soft Skills: Analytical thinking, teamwork, leadership, academic research

EXPERIENCE

HYBRID MODEL FOR CROP RECOMMENDATIONResearch Project | ABVV (Nov2024– March 2025)

- Developed a hybrid machine learning solution integrating two distinct models: one for crop recommendation to support smarter and more efficient agricultural practices.
- The Crop Recommendation Model assessed soil characteristics and weather conditions, tested across multiple ML algorithms:
- Achieved top performance with Naïve Bayes (99.54%), Decision Tree & Random Forest (98.86%), Bagging (98.63%), Logistic Regression (96%), KNN (95.55%), and AdaBoost (80%).
- Focused on addressing global variability in data to ensure adaptability across diverse climates and farming conditions.
- Delivered data-driven insights for crop planning, optimizing resource usage, and enhancing food security through predictive analytics.

MENTAL HEALTH PREDICTION USING MACHINE LEARNINGResearch Project | ABVV (May – July 2024)

- Developed an AI/ML-driven model to predict mental health conditions based on behavioral, emotional, and cognitive indicators.
- Adopted a **Mixed-Methods Approach (MMA)** to combine both qualitative and quantitative data, enhancing the depth and accuracy of insights.
- Dataset incorporated diverse features including sleep disturbances, appetite changes, fatigue, suicidal thoughts, anxiety episodes, irritability, and cognitive impairments.
- Trained the model using **Logistic Regression (LR)**, **K-Nearest Neighbors (K-NN)**, **Decision Tree (DT)**, and **Random Forest (RF)** classifiers.
- Achieved **high accuracy**, with high precision and recall, making it reliable for early detection of mental health risks.

NLP BASED VOICE ENABLED LANGUAGE TRANALATORInternship Project – NLP | ABVV (Feb – Apr 2024)

- Developed a voice-based language translator using Natural Language Processing (NLP) and Machine Learning techniques to facilitate real-time multilingual communication. The project was divided into three core phases:
- Speech-to-Text:** Captured and processed user speech input using Python libraries like SpeechRecognition, GTTS, and Google APIs, converting it into accurately transcribed text.
- Text-to-Text Translation:** Built a Seq2Seq model with RNN and LSTM architecture to perform efficient language translation, trained on a cleaned dataset to improve accuracy.
- Text-to-Speech:** Synthesized the translated output into speech using Playsound, GTTS, and Google Text-to-Speech APIs, delivering natural-sounding audio output. The final system successfully automated the end-to-end translation pipeline, demonstrating the practical application of AI in voice-based multilingual systems.

Education

Master of Computer Application80%

Atal Bihari Vajpayee Vishwavidyalaya Bilaspur (CG)Aug 2022 – July 2024
Coursework: Python, Data Science and Algorithm, Data Mining, Soft Computing, Big Data Analysis, Artificial Intelligence, Machine Learning, Object Oriented Programming, Java, Databases and management System, SQL, Operating System, Computer Networks, Image Processing, Software Engineering, Computer Architecture

B.Sc (CS)Percent-74%

Govt. E.R.R. PG Science College Bilaspur (CG)July 2019 – July 2022

ADDITIONAL INFORMATION

Certifications:

Prompt Engineering | Python | Data Science | Deep Neural Network | Introduction to java | Data Visualization with power BI | Data Analysis| Html, CSS & Java Script