Divyanshu Bhardwaj

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SUMMARY

UGC-NET qualified MCA postgraduate with a strong foundation in AI, Data Science, SQL and computer networks. Proficient in Python, ML techniques, and data analytics tools like Power BI, Tableau, and Excel. Skilled in building ML models, performing data cleaning, visualization, and delivering actionable insights. Experienced in developing AI-based solutions for domains like agriculture and education, with a focus on turning data into actionable insights. Passionate about applying AI tools to solve real-world problems and contributing to impactful, data-driven innovations.

SKILLS

Technical Skills: SQL, Python, AI tools, Power BI, Artificial Intelligence, Machine Learning & Data Science, Data Manipulation, Deep Learning, Data Visualization, HTML, CSS, JavaScript,
Soft Skills: Analytical Thinking, Communication, Multitasking, Problem Solving, Teamwork, Leadership

EXPERIENCE

HYBRID MODEL FOR CROP RECOMMENDATION ***Research Project | ABVV (Nov2024– March 2025)***

- Designed a dual-model system for *Crop Recommendation and Yield Prediction* to support data-driven agricultural decisions.
- Applied ML algorithms (Naïve Bayes: 99.54%, Decision Tree: 98.86%, etc.) on soil and weather data to suggest suitable crops.
- Utilized global crop yield data (101 countries) with features like rainfall, temperature, and pesticide use to forecast productivity.
- Ensured real-world scalability, promoting sustainable farming through optimized crop planning and resource efficiency.

MENTAL HEALTH PREDICTION USING MACHINE LEARNING ***Research Project | ABVV (May – July 2024)***

- Developed a model to predict mental health conditions using behavioral, emotional, and cognitive indicators.
- Used a Mixed-Methods Approach combining qualitative and quantitative data for deeper insights.
- Trained on features like sleep issues, appetite changes, fatigue, anxiety, irritability, suicidal thoughts, and cognitive decline**.**
- Applied ML algorithms (Logistic Regression, K-NN, Decision Tree, Random Forest), achieving high accuracy and reliability for early risk detection.

NLP BASED VOICE ENABLED LANGUAGE TRANALATOR ***Internship Project – NLP | ABVV (Feb – Apr 2024)***

- Developed a real-time AI system for real-time voice translation, enabling smooth multilingual communication.
- Captured speech input and converted it to text using Python libraries like SpeechRecognition, GTTS, and Google APIs with high accuracy.
- Developed a Seq2Seq model with RNN & LSTM for context-aware text translation, trained on a cleaned dataset.
- Converted translated text to speech using GTTS and Playsound, delivering clear and natural audio output.

EDUCATION

Master of Computer Application **[80%]**
Atal Bihari Vajpayee Vishwavidyalaya Bilaspur (CG) **Aug 2022 – July 2024**

Course work: Python, Data Mining, Soft Computing, Big Data Analysis, Artificial Intelligence, Machine Learning, Object Oriented Programming with Java, RDBMS, SQL, Operating System, Computer Networks, Software Engineering, Computer Architecture.

B.Sc. (CS) **[77%]**
Govt. E.R.R. PG Science College Bilaspur (CG) **Aug 2019 – July 2022**

ADDITIONAL INFORMATION

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