

Shivangi Tiwari

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SUMMARY

Detail-oriented and highly motivated UGC-NET qualified and MCA postgraduate with a strong foundation in software development, data structures, and computer networks. Skilled in programming languages such as Java, Python, and C++, with hands-on experience in web development, database management, and cloud technologies. Demonstrated ability to work collaboratively in team environments and adapt quickly to new technologies. Seeking an entry-level or junior developer role to leverage academic knowledge and contribute to innovative software solutions.

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

Assistant Professor – Computer Science *LCIT College, Bilaspur (oct 2024 –march 2025)*

- Teach undergraduate courses in Computer Science, including subjects like Data Structures, Machine Learning, and Web Development.
- Supervise student projects and research work, especially in emerging areas like AI, NLP, and IoT.
- Develop curriculum content, lab exercises, and assessments in alignment with academic and industry standards.
- Organize workshops, seminars, and technical events to enhance practical learning.
- Mentor students in technical competitions and final-year capstone projects, encouraging innovation and real-world application.
- Contribute to departmental growth through research, academic collaboration, and continuous curriculum improvement.

ML BASED HYBRID MODEL FOR CROP RECOMMENDATION AND YIELD PREDICTION
Research Project | ABVV (May – July 2024)

- Designed and implemented a Hybrid AI/ML system combining two core models: a Crop Recommendation System and a Crop Yield Prediction System, tailored to optimize agricultural planning and production.
- The **Crop Recommendation System** analyzed soil properties and weather conditions, trained on multiple ML algorithms including: Logistic Regression (96%), Naïve Bayes (99.54%), K-Nearest Neighbors (95.55%), Decision Tree (98.86%), Random Forest (98.86%), Bagging (98.63%), AdaBoost (80%).
- Utilized global crop yield data (101 countries) with features like rainfall, pesticides, temperature, and crop types. Tackled data heterogeneity and ensured scalable, real-world applicability. Enabled improved crop planning, resource optimization, and trade strategies.
- Supported intelligent and sustainable farming with predictive insights.

NLP BASED VOICE ENABLED LANGUAGE TRANALATOR *Internship 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 Application **80%**

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-76%**
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