Deepak Kumar

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Education

BTech, Computer Science and Engineering (AI & ML) : GBPIET, Ghurdauri	CGPA: 6.62/10	2021 - 2025
Class 12, CBSE: Shivalik Public Sr. Sec. School, Roorkee	Aggregate: 76 %	2019 - 2020

Projects

Dense crowd counting and modelling using Apache Spark *[Sep 2024 – June 2025]*

- Designed and implemented **real-time data processing pipelines** using **Apache Kafka and Spark** to handle large-scale streaming data.
- Integrated **deep learning models (CSRNet, MCNN) with edge computing solutions** for faster inference.
- Developed and optimized **embedded AI solutions for cloud-edge deployments** to enhance real-time crowd monitoring and anomaly detection.
- Implemented **unit testing and debugging techniques** to ensure model stability.

Prediction of Age and Gender *[Aug. 2023 - Sep. 2023]*

- Developed a **deep learning-based classification model** using **CNN** to predict age and gender with high accuracy.
- Utilized **OpenCV for image preprocessing** and **TensorFlow for deep learning model implementation**.
- UKTFace is used as Training data*[Link]*.

Sentiment Analysis Application *[Nov. 2022 - Dec. 2022]*

- Built a NLP technique with an ensemble learning method called Random Forest .
- Collected diverse datasets from **Amazon reviews, movie feedback, and Twitter API**.
- Preprocessed data using **Word2Vec and NLTK** for feature extraction.
- Developed a **React-based frontend** and a **backend in Express.js**, ensuring seamless user interaction.
- Conducted **unit testing, debugging, and performance optimization** to enhance application efficiency.

Gaming Gear Product Website / Tech-Pilot *[Dec. 2025- Jan. 2026]*

- Developed a responsive gaming gear website using HTML, CSS, and JavaScript.
- Implemented interactive navigation and product display using JavaScript DOM manipulation.
- Designed multiple sections including Home, About, Products, and Services.
- Performed testing and debugging to ensure smooth user experience. *[Link]*

Skills

Computer and software Skills:	C, C++, Debugging, Python, HTML, CSS, AutoCAD, Latex, MS Word, MS Excel.
Relevant Coursework:	Artificial Intelligence, Machine Learning, Data mining, Cloud computing, Soft computing, Computer Architecture, Data structure and algorithm, Design and Analysis of Algorithm, Digital Electronics, Operating system.

Extracurricular and Hobbies

- Cricket, participated in sport fest in GBPIET, Ghurdauri.
- Watching movies and web series.