

ABHAY SHARMA

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Profile Summary

Result-driven Software Engineer with a specialization in AI/ML, proficient in Python, Java, JavaScript, React, and SQL. Passionate about leveraging AI to solve real-world problems and enhancing software solutions for user-centric experiences. Seeking to contribute technical expertise and innovative problem-solving skills to drive impactful projects in a dynamic organization.

Education

MANIPAL UNIVERSITY JAIPUR

Sept 2022 – July 2026

B-Tech Computer Science and Engineering with specialization AI-ML

Skills

Languages: Java, JavaScript, Python.

Front End Development: HTML, CSS, JavaScript, React, Redux, TailWindCSS, MaterialUI.

Back End Development: JavaScript, Node.js, Express.js, MongoDB.

Core competencies: DSA, RDBMS, Operating System, Computer Networks, Artificial Intelligence, Machine Learning, Deep Learning, Natural Language Processing.

Tools: Git, GitHub, Postman, ChatGPT.

Projects

Real Time Chat Application

[Link](#)

- Developed a real-time chat application with instant messaging using Socket.io for WebSocket-based communication.
- Implemented secure authentication with JWT (JSON Web Token) and bcrypt.js for password encryption.
- Designed and optimized a responsive UI using React, Tailwind CSS, and Redux for state management.
- Integrated one-on-one and group chat functionality, enabling seamless user interactions.
- **Tools Used:** MERN Stack (MongoDB, Express.js, React, Node.js), WebSockets (Socket.io), JWT Authentication, Tailwind CSS, Redux,

Hate Speech Detection using NLP and Deep Learning

[Link](#)

- Developed a deep learning model to detect hate speech in social media text using Natural Language Processing (NLP) and Deep Learning techniques.
- Implemented recurrent neural networks (RNN) and bidirectional long- and short-term memory (Bi-LSTM) to improve classification accuracy.
- Word Embeddings (Word2Vec) were used for feature representation and preprocessing of text data.
- Collected labeled a dataset from Twitter social media platforms to train and evaluate the model.
- Achieved high accuracy and F1 score through hyperparameter tuning, dropout regularization, and batch normalization.
- **Tool Used:** Python, Numpy, Pandas, TensorFlow, Hugging Face

Employee Management System

[Link](#)

- Designed and developed a task management system that enables employers to assign tasks to employees with priority levels (High, Medium, Low).
- Implemented authentication and authorization for secure user access using local storage.
- Built an interactive and responsive UI using React.js and Tailwind CSS, ensuring a seamless user experience.
- Ensured state management and component reusability using React Hooks and Context API.
- Integrated task filtering, sorting, and search functionality to improve task management efficiency.
- **Tools Used: React.js, TailwindCSS, React Hooks, Context API, Custom authentication using Local Storage**

Text Summarization Project

[Link](#)

- Developed an extractive and abstractive text summarization model using Natural Language Processing (NLP) and Deep Learning techniques.
- Utilized Transformer-based models like BERT, T5 (Text-to-Text Transfer Transformer).
- Implemented TF-IDF, Latent Semantic Analysis (LSA), and TextRank for extractive summarization.
- Collected and preprocessed large-scale text data using spaCy, NLTK, and Pandas for efficient text cleaning and tokenization.
- Trained and fine-tuned models on news articles, research papers, and open-source datasets (e.g., CNN/Daily Mail, XSum).
- **Tool Used: Python, Pandas, Numpy, Keras, Hugging Face Transformer.**

Certificate

Summer Training Program 2023 on Ethical Hacking by IIT Kanpur ([Link](#))

Database Programming with SQL by Oracle ([Link](#))

Programming in Python by Coursera ([Link](#))