

Akshat Sahu

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EDUCATION

Stevens Institute of Technology | Hoboken, New Jersey
MS (Master of Science), Computer Science
GPA: 3.66/4

September 2023 — May 2025

Manipal University Jaipur | Jaipur, India
BE (Bachelor of Engineering), Information Technology
CGPA: 8.62/10

July 2019 — July 2023

SKILLS

Programming/Markup Languages: Java, C/C++, Python, SQL, Natural Language Processing (NLP), Prompt Engineering, HTML, JSP, Servlets, TypeScript, JavaScript, CSS, JSON, XML

Frameworks and Libraries: Springboot, Spring MVC, RESTful APIs, Hibernate, Maven, Angular, Streamlit, Pandas, Numpy, Matplotlib, Sklearn

Databases and DevOps: MySQL, Git, GitHub, Jenkins

EXPERIENCE

Nagarro

March 2023 — July 2023

Software Engineering Intern

Gurugram, India

- Engineered the Product Community Website, providing users with the ability to register, browse products, post reviews, and request reviews for diverse products, cultivating a dynamic and engaged user community.
- Developed backend RESTful APIs with Java Spring Boot, enabling user authentication, registration, product search, and review posting.
- Integrated Hibernate with MySQL for efficient data storage and retrieval, optimizing user information and product details management.
- Created interactive frontend interfaces using Angular, enhancing user engagement and overall experience on the Product Community Website.

PROJECTS

SummarEase.Ai | [GitHub Link](#)

December 2023 — January 2024

- Developed SummarEase.Ai, a **document summarization** application leveraging **OpenAI's GPT-3.5 Turbo** and **GPT-4** for advanced natural language understanding.
- Incorporated **LangChain's** text processing capabilities, utilizing **RecursiveCharacterTextSplitter** for effective **document chunking** and optimizing the summarization workflow.
- Integrated **ChatOpenAI** to dynamically generate **tailored summaries** based on **custom prompts** alongside PDFs.
- Engineered an intuitive **Streamlit interface**, offering **customizable parameters** and **interactive document chunk visualization** for an enriched user experience.

Fake News Detection Using Machine Learning | [GitHub Link](#)

January 2022 — April 2022

- Implemented various machine learning algorithms to **detect fake news** from a given news corpus.
- Performed **text data preprocessing techniques** (**tokenization**, **stopword removal**, **TF-IDF vectorization**) on a dataset of 40,000 records (fake and authentic news articles) to transform textual information into numerical features suitable for training.
- Applied **Decision Tree**, **SVM**, **Naive Bayes**, **Logistic Regression**, and **Random Forest** algorithms for training and evaluating the fake news detection model.
- Achieved an overall **testing accuracy of 99.58%** with the **highest performing model** being the **Decision Tree**.

COURSEWORK

Graduate:

- Data Structures and Algorithms, Fundamentals of Computing, Mathematical Foundations of Machine Learning

Undergraduate:

- Data Analysis and Algorithms, Database Management Systems, Automata Theory and Compiler Design, AI & Machine Learning, Deep Learning, Natural Language Processing

PUBLICATIONS

- Divadkar, S., Sahu, A. & Puri, S. A Novel Approach to Ambiguous Fake News Classification through Machine Learning. *IEEE 3rd Global Conference for Advancement in Technology (GCAT)* (2022).
- Divadkar, S., Sahu, A. & Puri, S. A Review of Ambiguous News Detection Approaches with Deep Learning, Machine Learning, and Ensemble Paradigms. *IEEE 3rd Global Conference for Advancement in Technology (GCAT)* (2022).

ACHIEVEMENTS

- 2023, **Dean's List Excellence in Academics Certificate**, in recognition of receiving the highest grade point average in the 7th semester, Manipal University Jaipur | [Link](#)