

# AKSHAT SRIVASTAVA

Software Developer — Machine Learning and AI — Full Stack Developer

Lucknow, Uttar Pradesh, 226025

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## Education

### Vellore Institute of Technology, Vellore

B. Tech. Honors in **Computer Science and Engineering (Spec.in IoT)** (CGPA 8.17)

July. 2023 – Present

Vellore, Tamil Nadu

### Delhi Public School, Eldeco

Secondary and Senior Secondary in **Physics, Chemistry and Mathematics**

April. 2008 – 2022

Lucknow, Uttar Pradesh

## Experience

### Executive Director and Full Stack Developer

Feb 2024 – Present

VITrendz

Vellore, On-Site

- Developed and maintained the **VITrendz** platform, which serves 100,000+ users across all VIT campuses
- Built and integrated features like the FFCS Planner, GPA Calculator, and Travel Mate using **React.js**, **TypeScript**, and **Node.js**.
- Utilized **MongoDB** and **Express.js** to design scalable and efficient backend services.
- Implemented type safety and modular architecture with **TypeScript** for both **frontend** and **backend** components.
- Collaborated with cross-functional teams to ensure smooth platform performance and timely feature rollouts.
- Contributed to the platform's rapid growth by optimizing user engagement and enhancing the overall user experience.

## Projects

### HeptaSlice | Python, Tensorflow, Resnet50, Deep Learning

Feb 2025

- Engineered a state of art **deep learning model using Tensorflow** for **automated liver tumor segmentation**, enhancing diagnostic precision and aiding in personalized treatment planning for 130 CT Scan Images.
- Made use of **tensorflow** and **Resnet50** convolutional model to accurately **detect and segment** the tumor area.
- The trained model had accepted accuracy of **98.74** on test data.

### Resumify | Python, Scikit-Learn, Pandas, NumPy, Matplotlib, Seaborn, Pickle

May 2025

- Developed a **resume categorization system** using **K-Nearest Neighbors (KNN)** for multi-class text classification.
- Implemented **text preprocessing and vectorization** using TF-IDF for transforming resume content into feature vectors.
- Applied data cleaning techniques using **Regular Expressions** to handle inconsistencies and noise in resume data.
- Deployed the trained model for resume prediction using a **pickled pipeline**, allowing for quick inference.

### FeedZone | HTML, CSS, JavaScript, News API

May 2025

- Developed a **news aggregation platform** that fetches and displays news from various categories using the **News API**.
- Implemented a **search functionality** to filter news articles based on user input for specific keywords.
- Designed a **responsive user interface** with category-based navigation and dynamic content rendering.
- Utilized **template elements and JavaScript** to efficiently create and update news cards in the DOM.

## Achievements

### Finance Head - German Literary Association, VIT Vellore

Nov. 2024 - Present

Managed budgeting, financial planning, and fund allocation to optimize club resources effectively.

### GirlScript Summer of Code

Oct. 2024 - Dec. 2024

Open Source Contributor

<https://gssoc.girlscript.tech/>

### Competitive Programming

2024 - Present

Solved over 350+ problems across online coding platforms including LeetCode, HackerRank, and GeeksforGeeks.

## Technical Skills

**Languages:** : Python, C++, JavaScript, Java, C, R

**Developer Tools:** : VS Code, Jupyter, Anaconda, Pycharm, Matlab, Rstudio

**Technologies/Frameworks:** : Git, GitHub, ReactJS, NextJS, NodeJS, ExpressJS, MongoDB, DynamoDB, Flask, Streamlit, PostgreSQL, Tensorflow, Django, Pytorch, FastAPI, Flask, Firebase, Pandas, Numpy, Webpack, MS Excel, Google Cloud Platform,

**Coursework:** Data Structures and Algorithm, Design and Analysis of Algorithm, Theory of Computation, Object Oriented Programming, Python

**Areas of Interest:** Data Structures and Algorithms, Web Development, Data Science, Machine Learning, Deep Learning, Data Analysis