

Aindri Bajpai

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EDUCATION

Vellore Institute of Technology

Bachelor of Technology in Computer Science

Chennai, India

Sep. 2021 – July 2025

Indian Institute of Technology, Madras

Online B.S. Degree in Data Science and Applications

Chennai, India

Aug 2022 - Aug 2025

EXPERIENCE

Software Engineering (SWE) Summer Intern

May 2024 – Aug. 2024

Visa Inc.

Bengaluru, India

- Collaborated with the Data Platform as a Service (DPaaS) team, working on Data Integration, Data Pipelines and ETL Processes alongside Data Engineers at Visa's Bengaluru office.
- Developed a solution that increased overall efficiency by 200% using Java and leveraging open-source software from the Apache Foundation.
- Maintaining code on GitHub to streamline development processes and gaining insights into corporate practices within a Fortune 200 company.

Samsung PRISM Intern

Oct. 2023 – July 2024

Samsung R&D Institute India

Remote

- Worklet Area provided - AI, ML. Project - Fuzzy (Typo) URL Detection & Correction
- A Fuzzy and Intelligent system that suggest that closest valid URL(s) can greatly enhance Users' experience while entering URLs
- Created an extension with the team that takes in user histories as well as top URLs from all over the world and matches and corrects them according to the fuzzy algorithm chosen.

Analyst Developer Intern

Aug. 2023 – Oct. 2023

NetConnectGlobal India

Remote

- Designed scalable Web Application using Spring Boot, application for database management, harnessing the power of Spring's comprehensive infrastructure & microservices architecture.
- Configuring the application to leverage Swagger UI, to manage API Calls, using RESTful APIs, streamlining interaction between the application and external services
- Enhanced the Web Application by integrating advanced functionalities, and deployed it so that it was accessible to end users.

Member, College Clubs and Societies

Sep 2021 – Present

Vellore Institute of Technology

Chennai, India

- Actively participated in various clubs, including *GirlUp* (a United Nations Initiative).
- Gained diverse experience as a Content Writer, Technical Writer, and Head of Content.
- Served as a Developer in the Tech Team of *IEEE WIE Chapter*, and contributed to the Marketing Team of the *Google Developer Student Club*.
- Enhanced marketing skills and managed social media content, focusing on SEO optimization.

PUBLICATIONS AND PROJECTS

A Novel Approach to Forecasting Crude Oil Price Based on LSTM and Online Learning

- Published - May 2024
- Introduced a novel approach to forecasting crude oil price by combining existing machine learning paradigms namely, Online Learning and Long Short-Term Memory (LSTM).
- In our approach, we combine LSTM with a sliding window approach, so that the model gets updated as it receives new data, and captures the changing trends as soon as a new price is available in a more accurate way.

Attire-Based Anomaly Detection in Restricted Areas Using YOLOv8 for Enhanced CCTV Security

- Published - March 2024
- Introduced an innovative security enhancement approach, employing advanced image analysis and soft computing.

- The focus is on an intelligent surveillance system that detects unauthorized individuals in restricted areas by analyzing attire.

Embedded Safety Wristband

Mar 2023

- Developed a, IOT based Bluetooth-enabled safety wristband to detect accidents and mishaps using sensor integration and real-time monitoring, as part of a Hackathon for Health-related technologies in University.

Chrome Extension

Feb 2023

- Delved into Chrome browser extension development using JavaScript, leveraging UI/UX skills and client-side scripting, which can be used to spam almost about anything, from a To-Do List to a whole paragraph, anything you wish for, includes an unwinnable Tic-Tac-Toe game among other things, as a part of a Hackathon in University.

ACTIVITIES AND ACHIEVEMENTS

Student Seminar Speaker, VIT Chennai

Feb 2023

- Contributed as a key speaker in the Student Seminar Series conducted by the School of Computer Science and Engineering at Vellore Institute of Technology, Chennai.

Winner, Health Tech-thon by IEEE Signal Processing Society, Madras

March 2023

- Won the Health Tech-thon held by IEEE Signal Processing Society's Madras Chapter at Vellore Institute of Technology Chennai, along with my partner. We built a Bluetooth-enabled safety wristband to detect accidents and mishaps using various onboard sensors.

CERTIFICATIONS

AWS Cloud Practitioner

Dec 2023

Amazon Web Services

Machine Learning Specialization

Aug 2023

Stanford University, Coursera

Applied Data Science with Python, IBM

May 2023

Cognitive AI

The Complete 2023 Web Development Bootcamp

March 2023

Angela Yu, Udemey

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL , JavaScript, HTML/CSS, R

Frameworks: React, Node.js, Flask, JUnit, WordPress, FastAPI

Developer Tools: Git, Docker, MATLAB, Amazon Web Services, VS Code, IntelliJ

Libraries: Pandas, NumPy, Matplotlib, Tensorflow, PyTorch