

# SOUNIC AKKARAJU

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## SUMMARY

A Computer Science and Artificial Intelligence student currently on track to achieve a First class degree from Aberystwyth University, possessing knowledge in Java, Python, SQL, HTML, CSS, JavaScript including frameworks like Django, React and NextJS. Excellent communication skills combined with teamwork, analytical and attentive nature.

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## WORK EXPERIENCE

### Software Engineering Intern, CORETEK LABS

Jul 2023 - Sept 2023

- Spearheaded the development of an AI chatbot, leveraging Django REST framework to create a seamless backend infrastructure.
- Acquired expertise in web scraping techniques and utilized the scraped data to train the chatbot, enhancing its knowledge base for the company's website.
- Worked closely with the back-end development team, fostering a collaborative environment that facilitated knowledge sharing and problem-solving.

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## EDUCATION

### BSc Computer Science and Artificial Intelligence

Sep 2023 - Jun 2025

Aberystwyth University

- Core Modules: Scientific Python (1st), Software Engineering (1st), Modelling Persistent Data (1st)
- Final Year Modules: Machine Learning (expected 1st), Mobile Development with Android (1st)
- Final Year Dissertation: Miscarriage Prediction Using Ensemble Deep Learning Models

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## PROJECTS

### Miscarriage Prediction Using Ensemble Deep Learning Models

Dec 2024 - May 2025

- Developed a novel high-performance ensemble model combining TabTransformer, FT-Transformer, and TabNet architectures achieving 93% AUC-ROC accuracy for early pregnancy complication prediction.
- Implemented SHAP (SHapley Additive exPlanations) visualization for model interpretability, enhancing clinical trust and identifying critical healthcare access factors
- Processed and analyzed a comprehensive dataset of 136,000+ maternal health records with 95 variables using Python, PyTorch, and scikit-learn

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## ADDITIONAL INFORMATION

- **Programming Languages / Frameworks:** Python, TensorFlow, PyTorch, HTML, CSS, JavaScript (NextJS, React, Django), XML, PostgreSQL, Java.
- **Co-curricular Skills:** Adobe After Effects (Editing), Adobe Photoshop (Editing)
- **Languages:** English (Fluent), Hindi (Fluent), Telugu (Native)