

# TRIDIBESH DEBNATH

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## OBJECTIVE

Highly motivated Computer Science graduate seeking a Python Backend / AI & ML / Data Science role to apply my skills in Python, FastAPI, ML, NLP, and data analysis to build scalable solutions and drive business insights.

## EDUCATION

### Bachelor of Technology in Computer Science & Engineering- Data Science

Aug 2021 – July 2025

Brainware University | Barasat, West Bengal

CGPA: 9.5/10

## EXPIRIENCE

### Software Developer Intern (AI/ML) – Netfotech Solutions

Aug 2025 - Dec 2025

- Built **FastAPI backend APIs** for **AI-based interview System** question generation using **Groq LLM (OpenRouter)**.
- Designed **databases** to manage interview questions, candidate responses, and evaluation data.
- Enabled **audio and video interviews** using **gTTS (Text-to-Speech)** and **Whisper (Speech-to-Text)** for real-time interaction.
- Developed an **AI evaluation pipeline** using **NLP** for **answer analysis** and **OpenCV** for candidate **face monitoring**.
- Generated **section-wise scores** and automated **candidate shortlisting** using **threshold-based decision logic**.
- Maintained code quality through **testing, debugging, and Agile development practices**.

### Python Developer Intern—WebGuru Infosystems Pvt. Ltd [\[Link\]](#)

Nov 2024 - Jan 2025

- Developed **Django-based Health disease Prediction applications** with automated **data processing workflows**.
- Built **machine learning pipelines** with **input validation and output verification** to ensure reliable results.
- Worked with **SQLite database** for data storage, querying, and backend business logic implementation.
- Automated **reports and data summaries** to support internal analytics and decision-making.
- Ensured application stability through **testing, debugging, and code optimization**.

## PROJECTS

### SnapNest – Full-Stack Social Media Platform [\[Link\]](#) || ( Tech Stack: Python, FastAPI, PostgreSQL, Streamlit, JWT, REST APIs )

- Developed a **full-stack social media application** using **FastAPI, PostgreSQL, and Streamlit** with **JWT authentication**.
- Implemented **REST APIs** to handle posts, likes, comments, and secure data management.

### Employee Retention Predictor [\[Link\]](#) || ( Tech Stack: Python, Pandas, Scikit-learn, Machine Learning )

- Developed an **end-to-end ML pipeline** for predicting employee attrition with automated preprocessing and feature engineering.
- Generated actionable insights to support **HR decision-making** and retention strategies.

### Spam Email Classification System [\[Link\]](#) || ( Tech Stack: Python, NLP, Scikit-learn, Pandas, Streamlit )

- Built an **NLP-based spam detection system** using **Naive Bayes**, achieving **~99% accuracy**.
- Deployed with **Streamlit** for real-time email classification and interactive testing.

## SKILLS

### Programing & Databases:

Python, SQL, MongoDB

### Backend Development:

FastAPI, Django (basic), REST APIs

### Data Analysis & ML:

Pandas, NumPy, Scikit-learn, OpenCV (basic), Data Cleaning, EDA, Model Evaluation

### AI & NLP:

NLP, RAG, Conversational AI, LLM Integration, Prompt Engineering

### Tools & Practices:

Git, GitHub, API Testing, Agile SDLC

### Core Concepts:

OOPs, DBMS

## ACHIEVEMENTS & ROLES

- **Presented** a CNN-based Brain Tumor Classifier at the ICDDA 2025 conference, Kaziranga University. [\[Link\]](#)
- **Co-author:** “Hepatitis C Prediction using ML”, published by IGI Global (2024). [\[Link\]](#)