

# NEELI SOUMYA

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## PROFESSIONAL SUMMARY

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Aspiring AI/ML Researcher and BTech CSE student at IIT Dharwad with hands-on experience in deep learning, natural language processing, and computer vision. Proficient in Python, PyTorch, and TensorFlow with project experience in fine-tuning LLMs, retrieval-augmented generation (RAG), and phonetic similarity detection across languages. Seeking roles in research or applied AI to contribute to innovative real-world solutions.

## TECHNICAL SKILLS

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<b>Programming Languages</b>	Python, C, C++, LaTeX
<b>Developer Tools</b>	VS Code, Git, Jupyter Notebook, Colab, Eclipse
<b>Frameworks &amp; Libraries</b>	Scikit-learn, TensorFlow, PyTorch, OpenCV, Pandas, Numpy, Tkinter
<b>Soft Skills</b>	Leadership, Teamwork, Decision-making, Time Management, Public Speaking

## EDUCATION

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<b>Indian Institute of Technology</b> , Dharwad, Karnataka	Expected 2026
Bachelor of Technology, Computer Science.	CPI: 8.34

## EXPERIENCE

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**Text Analysis Research Intern — IIT Dharwad & IIIT Dharwad** May 2024 – Aug 2024

- Conducted multilingual tokenization and translation of Bhagavad Gita texts, enabling linguistic analysis across 10+ Indian languages.
- Designed a classification algorithm to distinguish 500+ phonetically similar terms using semantic clustering.

**AI Intern — CodeAlpha** Jun 2024 – Jul 2024

- Developed a multilingual translator and chatbot for interview preparation using transformer-based models, improving response accuracy by 30%.
- Built a real-time object detection system using OpenCV for intelligent tracking.

**ML Intern — Academor** May 2024 – Jun 2024

- Engineered a logistic regression model that achieved 87% accuracy in predicting loan approvals using cleaned financial datasets.
- Built an interactive Python-based Tic-Tac-Toe game demonstrating algorithmic logic.

## PROJECTS

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### Academic Projects

- Developed NLP tools including a GPT-4 chatbot, spell-checker, multilingual transliteration system, and a Naïve Bayes classifier. [\[Chatbot & NLP Tools\]](#)
- Built predictive ML models for job placement, weather forecasting, and hotel reservations. [\[Prediction Models\]](#)

### Self Projects

- Created a filtered Google-search chatbot, transliteration engine, and AI-based spell corrector using edit-distance and phonetics. [\[Language Tools\]](#)
- Built and deployed ML models including loan predictors, spoken language identifiers (MFCC + SVM), and fine-tuned Mistral-7B. [\[ML Projects\]](#)

## RESEARCH PROJECTS

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### Language Detection using Meta-Learning — IIT Dharwad

Aug 2024 – Present

- Replaced MFCC features with Wav2Vec2 embeddings in a prebuilt language ID model, enhancing accuracy for low-resource languages.
- Applied few-shot learning to expand model adaptability across 10+ Indian languages with minimal supervision.

## LEADERSHIP & EXTRACURRICULARS

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- Girls Hostel Secretary — Organized events and mentorship for 250+ students.
- Inter IIT Sports — Represented IIT Dharwad in Basketball; 1st in Chess & Basketball, 2nd in Cricket.
- Other — 1st in Rhythmic Yogasana; House Captain in Class 5 & 9.