

NEELI SOUMYA

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OBJECTIVE

Highly motivated and detail-oriented BTech student at IIT Dharwad, specializing in Artificial Intelligence and Machine Learning. Experienced in developing predictive models, NLP applications, and interactive games. Seeking an opportunity to leverage my technical skills and passion for AI in a challenging internship or research position to contribute to innovative projects and further my expertise.

EDUCATION

Indian Institute of Technology , Dharwad, Karnataka	Expected 2026
Bachelor of Technology, Computer Science.	CPI: 8.06
Sri Chaitanya Junior College , Hyderabad, Telangana	2020 - 2022
Class 12th in PCM.	Percentage: 97.6%
Kendriya Vidyalaya , Hyderabad, Telangana	2010 - 2020
Class 10th	Percentage: 95%

TECHNICAL SKILLS

Programming Languages	Python, C, Java, LaTeX
Web Technologies	HTML, CSS
Developer Tools	VS Code, Git, Jupyter Notebook, gedit
Frameworks & Libraries	Scikit learn, Tensorflow, OpenCV, Tkinter, Pandas, PyTorch
Platforms	Windows, Linux
Soft Skills	Leadership, Teamwork, Decision-making, Time management, Public Speaking
Languages	English, Hindi, Telugu

EXPERIENCE

Text Analysis Based Research Intern	May 2024 - Present
Indian Institute Of Technology	Dharwad, Karnataka
Guide: Prof. Jivnesh Balasaheb Sandhan	

- **Contributed to Research Publication:** Conducted thorough research and analysis with the objective of publishing findings in a reputable paper or journal, contributing to the field of NLP and linguistics.
- **Collected and Tokenized Bhagavad Gita Text:** Gathered the complete text of the Bhagavad Gita and performed tokenization to facilitate detailed text analysis and processing.
- **Performed Multilingual Translation:** Translated the tokenized text into multiple languages, enabling cross-linguistic analysis and comparison.
- **Identified Phonetically Similar Words:** Analyzed the translated texts to find words with similar phonetic structures, applying advanced NLP techniques.
- **Classified Words by Sound and Meaning:** Categorized the identified words into groups based on their phonetic similarity and semantic meaning, distinguishing between homophones and homonyms.

Artificial Intelligence Intern	Jun 2024 - Jul 2024
CodeAlpha	Remote

- **Implemented Object Detection and Tracking:** Developed a robust system for detecting and tracking objects in real-time, leveraging advanced computer vision techniques to enhance automation and surveillance capabilities.

- **Created a Frequently Asked Questions Chatbot for Job Interviews:** Designed and implemented an AI-driven chatbot to provide users with real-time, accurate answers to common job interview questions, improving their preparation and confidence.
- **Developed a Language Translator Tool:** Engineered an application capable of translating text between multiple languages, enhancing communication and accessibility for diverse user groups.

Machine Learning Intern

May 2024 - Jun 2024

Academor

Remote

- **Developed a Loan Prediction Tool:** Engineered a machine learning model to predict loan approval based on various parameters, applying advanced ML techniques to real-world financial data for accurate forecasting.
- **Developed a Python Tic-Tac-Toe Game:** Created an interactive Tic-Tac-Toe game for two players, demonstrating proficiency in Python programming and game logic implementation.

AI Data Entry Intern

May 2024

Codematics

Remote

- **Collaborated on AI Projects:** Worked with cross-functional teams to develop AI solutions, contributing to the ideation, development, and testing phases to meet project goals.
- **Conducted Data Collection and Preprocessing:** Gathered, cleaned, and prepared large datasets from various sources, ensuring data quality and consistency for analysis.
- **Documented Processes and Findings:** Created comprehensive documentation of methodologies, code, and results to ensure reproducibility and knowledge sharing within the team.

PROJECTS

AI ML Project

Guide: Prof. Jivnesh Balasaheb Sandhan

- **Created an Advanced Chatbot:** Developed a chatbot that retrieves information from Google with additional filters, enabling users to specify queries for professional or personal information, works, etc., for more targeted and relevant results. ([Try it here](#))
- **Developed Job Predictor Tool:** Built a predictive model to forecast job outcomes based on various candidate attributes, aiding in career planning and decision-making.
- **Engineered Weather Prediction Model:** Created a tool to predict weather conditions using historical data and machine learning algorithms, enhancing accuracy and reliability.
- **Designed Hotel Reservation Predictor:** Implemented a model to forecast hotel reservations, optimizing inventory management and customer satisfaction.

Python Project

Self Project

- **Developed Tic-Tac-Toe Game:** Designed and implemented a classic Tic-Tac-Toe game for two players, focusing on game logic, user interface, and ensuring a seamless player experience. ([Play it here](#))
- **Created Hangman Game:** Engineered a Hangman game that challenges players to guess a hidden word, incorporating word selection algorithms and interactive gameplay elements.
- **Built Guess the Number Game:** Developed a number guessing game where players attempt to guess a randomly generated number, implementing user feedback mechanisms and dynamic difficulty adjustments.

KEY COURSES UNDERTAKEN

Deep Learning	Neural Networks, CNN, RNN, transformers, GAN, NLP, RL
Database Management Systems	Relational Model, SQL, Normalisation, Joins, Deadlock Handling
Artificial Intelligence	Supervised Learning, Unsupervised Learning, Reinforcement Learning
Computer Architecture	Assembly Language, Instruction set architecture (ISA), 5 Stage Pipeline
Automata theory	Deterministic Finite Automaton, Non Deterministic Finite Automaton
Design and Analysis of Algorithms	Backtracking, N-Queens, Sorting, Job sequencing, Greedy algorithm
Software Systems Lab	Linux, LaTeX, HTML, CSS, Javascript
Data Structures and Algorithms	Stack, Queue, Linked List, Heaps, Hashing, Tree, Graphs
Introduction to Programming	C, Python

EXTRA-CURRICULAR ACTIVITIES

- Actively participated in 56th **Inter IIT Sports** Meet in **Basketball** at IIT Bombay.
- Always been hyperactive in sports; secured 1st prize in **Chess**, 1st in **Basketball**, and 2nd in **Cricket** in the college's **General Championship**.
- Secured 1st prize in **Rhythmic Yogasana Pair** competition as a yoga enthusiast.

LEADERSHIP

- Elected as **Girls Hostel Secretary** in 2nd year BTech, overseeing 250+ students. Facilitated basic necessities, volunteered for fundraising for fests (Freshers Party, Ganesh Chaturthi, Diwali, Holi), mentored homesick juniors, and fought against ragging.
- Selected as a **Mentor** in 2nd year BTech. Mentored 4 students, providing guidance on reference books, PYQs, studies, and extracurricular activities.
- Represented as **House Captain** in Class 5 (Primary) and Class 9 (Secondary). Actively participated in co-curricular activities and sports events, securing 1st prize for the house. Engaged in collecting names of students for various activities.