Abhinav Krishna M A

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EDUCATION

B.Tech Artifcial Intelligence and Data Science,   2021 – 2025
Anna University, Sri Venkateswara College of Engineering, Chennai, India
CGPA: 7.83/ 10
Related coursework: Probability and Statistics, Programming for DS, Principles of AI, Applied Machine Learning, Deep Learning Algorithms, Big Data Analytics, NLP techniques, Reinforcement Learning, Healthcare Analytics

Senior Secondary Education, *Sir Mutha School, Chennai, India*   2019 – 2021
Grade: 77.8%

PROFESSIONAL EXPERIENCE

Data Analyst Intern, *Kreyaas Associates.*   06/2024 – 07/2024 | Chennai
- Performed comprehensive data cleaning and preprocessing on company datasets to ensure accuracy and consistency.
- Managed and organized large datasets using Excel, ensuring efficient data storage and retrieval.
- Visualized key findings from data analysis through clear and informative presentations, helping stakeholders make data-driven decisions.

Data Analyst Intern, *Unified Mentor Pvt. Ltd.*   01/2024 – 02/2024 | Remote
- Processed and analyzed diverse datasets for ongoing company projects, transforming raw data into actionable insights.
- Developed and presented visualizations of data trends using Python and Power BI, providing valuable analysis to inform decision-making and strategy.

Machine Learning Intern, *Diya Robotics.*   06/2023 – 07/2023 | Chennai
- Collaborated with professionals from diverse fields, including content and research, to complete multidisciplinary tasks.
- Worked on a real-time robotics project, utilizing Micro-Python and various sensors to implement robotic systems.

PROJECTS

EEG-Based Mental Confusion Prediction
- Developed a model that uses EEG data to predict student confusion levels during online learning.
- A hybrid CNN-Bi-LSTM with attention mechanism architecture was used to analyze EEG signals.
- Improved prediction accuracy by focusing on relevant EEG features using feature engineering.

Web Scraping and Analysis on Indian Cars
- Developed web scraping scripts using Python to extract data from live Indian automotive websites using Selenium and WebDriver.
- Analyzed the scraped data using PowerBI, creating an intuitive dashboard to visualize the trends in the Indian car market.

Data Analytics & Visualization
- Analyzed Amazon sales and employee attrition datasets, applying data preprocessing techniques using Python Libraries.
- Developed dashboards with Power BI to visualize key trends and get insights.

School Student Dropout Prediction
- Performed data preprocessing to prepare student datasets for analysis.
- Applied KMeans and Random Forest models to classify student dropout risk.

TECHNICAL SKILLS

Programming Languages (Python, C/C++, Java), **DBMS** (MySQL, MongoDB), **Libraries/Frameworks** (TensorFlow, Sci-kit learn, NLTK, Numpy, Pandas, Matplotlib, OpenCV), **Microsoft Tools** (Word, Excel, PowerPoint, Power BI)

CONFERENCES

Abhinav Krishna M A, Deepan R, Shreemirrah AK, Shobhanjaly P. Nair, "Modelling EEG Signals for Mental Confusion Using CNN-Bi-LSTM with Attention", Hinweis Third Internation Conference on AI&DS | **2024 - Scopus Journal**.

Aakash PB, **Abhinav Krishna M A**, Mohammed Uzeir, Lakshmi Priya, Kapila Vani RK, "Enhancing Fire Safety in Buildings Through AI-Powered Fire Detection and Evacuation Planning" | **NCICRCET 2024 – ICT Academy Journal, ISBN: 978-93-340-8250-0.**

Abhinav Krishna M A, Aditi C, Aakash PB, Kapila Vani RK, "An application that addresses emergency traffic control for ambulances" | **NCICRCET 2023.**

CLUBS AND ORGANIZATIONS

President, *Forum Of Data Science Engineers (FODSE) Club*   2024 – present
- Held leadership positions: Joint Secretary (Second Year), Secretary (Third Year), and President (Final Year).
- Led and organized events including webinars, mentorship programs, and a 24-hr hackathon.
- Collaborated with teams and professionals to execute projects in Data Science and Machine Learning.
- Mentored students in data science through peer-to-peer sessions.

Research & Operations Executive, *KNOW-I Machine Learning Club*   2022 – 2024
- Gained hands-on experience with machine learning models and data analysis tools.
- Conducted research and development on machine learning concepts in a grouped environment.
- Assisted in organizing technical and non-technical events on machine learning, data analysis, and web development.

Junior Mentor, *Coder's Forum Club - FORESE*   2023 – 2024
- Mentored students in data structures and programming, enhancing their problem-solving skills for coding interviews.
- Delivered focused sessions on arrays, linked lists, and algorithms to build strong foundations for placement success.

Member, *Youth Red Cross*   2021 – present
- Active member and participant in several social awareness campaigns.
- Participated and volunteered in Blood donation camps.

CERTIFICATIONS

Data Science with Spark, *Infosys - Springboard.*   09/2024

Introduction to MongoDB, *ICT Academy.*   09/2024

Azure Essentials Data Engineering, *SVCE.*   09/2024

XAI/RAI & NLP Workshop, *SVCE.*   09/2024

Fundamentals of Deep Learning, *NVIDIA DLI.*   03/2024

Flutter Development with Dart, *Udemy.*   03/2023

Data Science with Python, *SmartKnower.*   09/2022

ACHIEVEMENTS

Lawyers Up - Debate, *Runners Up*   10/2024

VizFest - Data Visualization, *Special Mention*   09/2024

Smart India Hackathon 2024 (Indian Government), *Finals Nominees*   09/2024

IdeaForge - Idea Presentation, *Winner*   07/2024

Clash of Minds - Debate, *Winner*   07/2024

Yet Another Hackathon '22, *Best Sophomore Team*   07/2022