BHAVISHYA PATTANAYAK

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OBJECTIVE

Computer Science student seeking an internship to gain hands-on experience in Deep Learning, Natural Language Processing and Neural Networks, and contribute to innovative AI projects.

EDUCATION

Higher Secondary, KPS Sarona, Raipur, India 2019 - 2021
Grade: 95

Bachelor of Technology, SRM Institute of Science and Technology, Chennai, India 2021 - 2025*
Computer Science and Engineering with specialization in AI and ML
Current CGPA: 9.17

SKILLS

Technical Skills	Python, Tensorflow, Scikit-Learn, Basic SQL
Machine Learning	Neural Networks, Natural Language Processing, Generative AI
Development Tools	Colab, Jupyter, Git/Github, LaTeX
Soft Skills	Analytical Thinking, Communication, Problem Solving, Attention to detail

EXPERIENCE

Machine Learning Intern Nov 2023 - Feb 2024
StarHealth and Allied Insurance *Chennai, TN*

- Contributed to a research-focused internship aimed at enhancing healthcare data analysis techniques through natural language processing and machine learning methodologies.
- Engineered preprocessing functions to clean and tokenize text data, enhancing disease matching accuracy in medical records
- Spearheaded the development of a comprehensive patient data analysis tool utilizing Python, NLTK, and pandas. Aimed at identifying pre-existing diseases (PEDs) by calculating Jaccard similarity between input ailments and patient condition descriptions.

Machine Learning Intern Aug 2024 - Nov 2024
Whiteklay Technologies *Pune, MH*

- Developed a robust API integrator to facilitate seamless data exchange between enterprise platforms, optimizing workflow efficiency.
- Designed and implemented a lead sorting algorithm that extracted and prioritized high-conversion leads from IndiaMART's API, enhancing business intelligence.
- Applied machine learning techniques for data structuring, improving data retrieval accuracy and decision-making automation.
- Gained hands-on experience in automated AI-driven data processing and real-world AI deployments.

RESEARCH

Text Summarization using DistilBERT-LSTM.
Conference: International Conference on Information Systems and Computer Networks (ICISCN) – IEEE Sponsored
Status: Accepted, awaiting publication

- Designed a deep learning-based text summarization framework integrating DistilBERT-LSTM, HAN, MAN, and CADM to enhance cross-domain generalization.
- Proposed use of Contrastive Adversarial Domain Mixup (CADM), a domain adaptation technique that improves model robustness and semantic retention in NLP applications.
- Conducted experiments on the CNN/Daily Mail dataset, demonstrating higher ROUGE scores and improved structured text representation for summarization models.

PROJECTS

Auto Music Generation. Built an auto music generation model implemented using Long Short-Term Memory (LSTM) networks, a Convolutional Neural Network (CNN), and trained using the Adam optimizer. The model generates music in both sheet music format and playable audio format based on a provided dataset of MIDI files.

Topic Modelling. Built and deployed a dynamic topic modeling framework with a primary focus on Latent Dirichlet Allocation (LDA) and Non-Negative Matrix Factorization (NMF) algorithms. Augmented functionality with an article recommendation engine utilizing TF-IDF methodology, facilitating seamless retrieval of top-ranked documents based on user-specified keywords.

Image Captioning. Engineered an image captioning system utilizing CNNs and RNNs on the Flickr dataset, that can generate captions for images using the VGG16 model and LSTM neural network architecture achieving high accuracy and BLEU scores in caption generation..

CERTIFICATIONS

- Oracle Certified Generative AI Professional

LANGUAGE SKILLS

English : Level C2, Band - 8.5 IELTS CEFR, Full Professional Proficiency

LEADERSHIP

Technical Lead Feb 2024 - Apr 2024
SRM Crewsphere