Yanbo Han

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Education

Hainan University   Expected May 2025
Bachelor of Science in Software Engineering (The average score: 82.77)   *Haikou, Hainan*
- **Relevant Coursework:** Data Structures and Algorithms (C++), Intro to AI, Linear Algebra , Pattern Recognition (Python), Natural Language Processing, Java Programming, High Performance Computing
- **Studying Intention:** Research Intern, PhD Student, MPhil student

Research Experience

HNU SKyan Group   April 2023 – Now
Junior undergraduate student   *Haikou, Hainan*
- * Proposed a deep neural network model BiCalBERT for chinese question-answering in the scientific context, under the esteemed supervision of Assoc.Prof.Yan. The work was substantially sponsored by the research project (Grant No. 62202128) supported by the National Natural Science Foundation of China.This research was substantially sponsored by the grant from Hainan University (Grant No. KYQD(ZR)23125).
- * Contributed to the repositories of large language models in order to make it easier to solve some task performance issues by making some underlying changes and innovations to achieve better results.
- * Currently experimenting, modifying and fine-tuning my own models and also learning diffusion model, RAG and other pop AI techniques.

NIIT Turing Organization   March 2023 – Now
HNU Undergraduate AI Team Leader   *Haikou, Hainan*
- * Won the national second prize and the provincial second prize in the artificial intelligence innovation track of the CRAIC2023 competition.
- * Deeply participated in the development of the software "GPT Smart Text Detection System Based on RoBERTa-RCNN and Attention Pooling" as a coder, which was reviewed and registered by the China Copyright Protection Center.
- * Concentrated on an invention patent in artificial intelligence natural language processing, which has passed the preliminary review.

Practical Experience

Artificial Intelligence Practice | *Deep Learning, Diffusion Model, NLP*
- * Actively participated in many open source activities of organizations like Datawhale or Intern that focus on many areas of AI, as teaching assistant or excellent participants.
- * Accumulated rich experience in Kaggle, Alibaba Tianchi and other competitions, which involves Artificial Intelligence Generated Content, LLMs, Knowledge Graph and so on.

Visit Student in NWPU | *Computer Vision, TensorFlow, PyTorch, OpenCV, YOLOv8*
- * Participated in the 2023 Northwestern Polytechnical University summer AI master camp and obtain A+ grades after passing professional course study and practical project assessment.
- * Obtained support from Ascend Atlas200DKA2 resources after discussing with Huawei staff in deep learning domain, and implemented preliminary applications in the field of object detection.
- * Won Huawei Cloud HCCDA-AI talent certification and entered Huawei's talent pool

Innovative & Practice Programme for the Cultivation of High-level Internationalized Talents | *NLP, Cloud Computing*
- * Actively participated in the 2023 summer vacation PBL (Projected-Based Learning) interdisciplinary courses.
- * Completed Project-Based Learning interdisciplinary online courses and passed all the examinations.

Intern of Sail Project | *Data Processing, Excel, Word*
- * Participated in the Hainan Province Sail Plan and intern at the Teacher Work Office of the Hainan Provincial Department of Education from May to June 2023.
- * Responsible for data processing and participating in data verification of important documents, such as recruitment of teachers for special positions.

Self Recommendation

I understand the basic concepts of Deep Learning, Natural Language Processing and Large Language Models, and am familiar with related technologies and tools, such as pytorch, Huggingface, etc., and can flexibly choose tools for research and development. At the same time, I have scientific research experience and paper publishing experience, and plan to engage in scientific research work for a long time.

While, I also have good English proficiency and project implementation ability, strong sense of responsibility, self-motivation, sufficient interest in related fields, be able to coordinate studies, and invest a certain amount of energy in related fields (30h+ per week).

Technical Skills

Languages: Python, Matlab, SQL, LaTeX, C, Cpp
Technologies: PyTorch, TensorFlow, Langchain, Django, Hadoop Ecosystem
Concepts: Artificial Intelligence, Deep Learning, Machine Learning, Computer Vision, Natural Language Processing, Reinforcement Learning from Human Feedback, Generative AI, Operating System, Neural Networks, Database Normalization, Cloud Computing