Hemanth Bysani

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EDUCATION

Amrita School of Engineering — Bangalore, India
Computer Science and Engineering; CGPA: 8.93 — *Aug 2020 - Aug 2024*

Leadership Experience: **FACE Vice President, GeeksForGeeks Chapter Lead**

Narayana CO Kaveri Bhavan — Bangalore, India
State Board 12th: 85.3%, JEE Mains 96% — *Aug 2018 - March 2020*

SKILLS SUMMARY

- **Languages:** (Proficient) **Python, Java, SQL, HTML/CSS** (Familiar) **Javascript, Typescript, C/C++**
- **Tools: Tensorflow, Keras, PyTorch, OpenCV, Pandas, SpringBoot, Maven, Marklogic, Node.js, JIRA, MYSQL, Postman, Selenium**

EXPERIENCE

GE Aerospace — Bangalore, India
Data Science DT Intern — *Jan 2024 - Current*
- Working on optimizing Crack Detection in GE turbojet engines using bore scope images and videos.

Northern Trust — Bangalore, India
SDE Project Intern — *June 2023 - September 2023*
- Streamlined legacy transaction archive retrieval, reducing TAT from days to seconds, implemented search logic for latency reduction and enhanced security using Java, Spring and Marklogic, achieved comprehensive test case coverage and project go live by Q4 2023, and boosted Transaction Archive Management (TAM) team productivity.

Wipro — Bangalore, India
ML Project Intern — *July 2022 - August 2022*
- Developed a standardized framework for Machine Learning and optimized MLops workflow at Wipro, creating scalable and modular code to facilitate training using Python, testing, and visualization of machine learning models, while also improving onboarding with comprehensive documentation, resulting in a reduction of knowledge transfer time from 2 weeks to 4 days.

PROJECTS

- **Research on Pneumonia Detection using chest X-ray based on ensemble learners (Published Paper)**
  - Researched on the efficiency of using ensemble learners with deep learning models using transfer learning on the detection of pneumonia in chest X-ray images.
  - This research was published to and accepted by ICCCNT14 international conference held at IIT-Delhi, India on July 2023.
  - Used tensorFlow library and PyTorch Library for model creation with pre-trained weights and applying transfer learning using a stacked ensemble method.
  - Achieved accuracy of more than 89.5% on validation data of 1500 images with a high AUC score of 98.4% .

- **Research on Sustainable Development Goals(SDG) Based Forecast Model for India's Economic Growth**
  - Evaluated sustainable development of economic growth based on data treated by SPSA-FSR.
  - Utilized the SPSA-FSR model for dimension reduction of economy-growth indicators in India.
  - Employed Elastic Net and other regression models to establish the wrapper model for SPSA-FSR.
  - Achieved 90+% accuracies in our model evaluations and found out that 9 parameters can be possibly reduced using our method, resulting in savings upwards of 10,000 crores Indian Rupees.

- **Extractive Text Summarization of Doctor-Patient notes (IIA Hackathon Winner)**
  - Implemented 4 machine learning models for extractive text summarization of doctor-patient notes, with an accuracy of more than 90%.
  - Conducted data preprocessing on a dataset of 10,000 sentences, including tokenization, lemmatization, and weighted frequency formulation, and performed comparative analysis on the models.
  - Utilized NERs to categorize words based on their meaning and roots and applied weighted frequencies by leveraging a healthcare dictionary provided to us.
  - Models included: Bert, Sumy, Cosine-similarity, SpaCy

Notable Achievements

- Published Machine Learning themed paper in healthcare domain to (ICCCNT14) on July 2023.

- Ranked among top 3% in my class based on Curriculum and Extra Curriculum activities.

- Ranked 12th position in Inctf competition, wtfctf 4th position, Tamil CTF 9th position, NITECTF 15th position.

- Sainya Ranakshetram finalist, TrollCAT CTF 5th position FY 2020-2022

- Finished runner up in TCS Techbytes regional tech competition with cash prize as reward

- Innovation Incubators Hackathon: awarded a cash prize and recieved internship opportunities.