Hari Sai Harish

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EDUCATION

Purdue University — West Lafayette, IN

B.S. in Computer Science and Data Science, Certificate in Entrepreneurship — *Aug 2024 – May 2028*
- Data Structures, OOP, Big Data, Entrepreneurship, Calculus, Discrete Math, Statistics (Expected GPA: 4.0)

EXPERIENCE

Backend Engineer — Aug 2024 – Dec 2024

Concrete Engine: Express.js, MongoDB, Eslint, Ansible — *West Lafayette, Indiana*
- Project part of the Corporate Partnerships cohort of Purdue's DataMine Learning community.
- Subject to NDA, no further details available currently.

Software Engineer Intern — Jun 2024 – Jul 2024

Tarnea Technological Solutions Ltd.: OpenCV, Dlib, Flask, NumPy, Deep Learning Models — *Bengaluru, India*
- Built a real-time engagement tracker that detects and analyzes customer interactions with advertisements.
- Designed algorithms to track and categorize faces, eyes, interaction times, and customer demographics.

Software Developer Intern — Jun 2023 – Sep 2023

SmartAxiom Inc.: TypeScript, Angular.js, Next.js, MongoDB — *Remote*
- Developed a live tracker to collect vital data from heat sensors and GPS monitors on shipments.
- Implemented a parametric filter to display this data, and enhance their website's front-end functionality.

Software Engineer Intern — Nov 2022 – Feb 2023

Tarnea Technological Solutions Ltd.: PyTesseract, OpenCV, Google Vision — *Bengaluru, India*
- Constructed an OCR algorithm to digitize bills from pharmacies nationwide with 95% accuracy.
- Formulated a process to feed derived tokens into an algorithm to segregate and record the chunks of data.

PROJECTS

ShortestRoot | *React.js, Google Maps API, SQLite* — Jan 2024
- Created a platform to streamline fair and efficient meet-up planning in foreign/busy cities.
- Devised innovative triangulation algorithms to calculate shortest urban-transit routes based on real-time traffic.

Contactopus | *Android, Dart, Flutter, QR Codes* — Feb 2023 – Jul 2023
- Launched an Android application to streamline networking/communication in public gatherings.
- Integrated QR Code functionality for seamless mass sharing of customizable contact cards.

Finance NLP | *Logistic Regression (BoW), LSTM, Neural Networks, Transformers* — Jan 2023 – Mar 2023
- Trained LLMs with real datasets and experimented with multiple models to maximize performance and precision.
- Final model uses sentiment analysis to predict stock trends based on celebrity tweets, with 97% accuracy.

RESEARCH EXPERIENCE

Research Paper about Online Privacy and Safety for Young Adults — Jul 2022 – Aug 2022

YLAC (Young Leaders for Active Citizenship) — *Remote*
- Conducted extensive research on Indian Cybersecurity laws and teenage internet exploratory patterns.
- Compiled a list of threats during user interactions, and formulated potential solutions to India's Data Privacy Law.
- Paper published internally for the Internet Freedom Foundation (IFF).

ACCOLADES

Oakridge Codefest 2024: 1st place in India's largest overnight hackathon (trophy + 30,000 INR cash prize).
TisbHacks 2023 National Hackathon: 1st place in Competitive Coding (gold medal + 5,000 INR cash prize).
iCode Global Hackathon 2023: Ranked 38th out of 2.15 million participants (gold medal).

SKILLS SUMMARY

Languages: Java, Python, JavaScript, TypeScript, Dart, HTML/CSS
Frameworks: React, Node.js, Next.js, Angular.js, Express.js, Flask, MongoDB, SQL
Libraries: Pandas, NumPy, Matplotlib, PyTorch, TensorFlow, Keras, OpenCV