Abhivesh Shukla

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Summary

Passionate Computer Science student with a strong foundation in programming, problem-solving, and software development. Interested in emerging technologies, with a continuous learning mindset and proven ability to develop innovative and scalable solutions. Skilled in collaborative environments and dedicated to excellence, creativity, and staying ahead of industry trends

Work Experience

Wipro, Hyderabad **June 2024 - August 2024**

Intern *Node.js, Python, JS, Git, Github*

- Built an Alexa skill using AWS for a celebrity birthday trivia game with session management, DynamoDB for data storage, personalized greetings, APL-based interactive displays, and intent handling for user interactions like score tracking and error management.
- Developed a Node.js PDF tool that extracts the table of contents and enables word search within chapters for improved navigation.
- Engineered a Python resume parser using PDFMiner and spaCy for text extraction and regex for identifying name, contact details, skills, education, and experience sections, enhancing accuracy with custom regex patterns.

Education

SRM Kattankulathur **Jun 2022 - May 2026**

B.Tech in Computer Science and Engineering ***CGPA: 9.21/10***

Project Work

- **Disease Prediction through Ensemble Regressor**
  - Implemented ensemble regression by combining models like Decision Tree, Random Forest, and Linear Regression using Voting Regressor to predict outcomes from text-based data.
  - Applied TF-IDF vectorization to convert text into numerical features for model training and evaluation.
  - Improved prediction accuracy by aggregating predictions from multiple models, leveraging their collective strengths.
- **Environment Pollution Monitoring System**
  - Developed an Air Pollution Monitoring System using Arduino Mega (ATMega2560) and a NodeMCU-ESP8266 WiFi Module for internet connectivity and data transmission.
  - Monitored air quality with MQ135 (CO2) and MQ7 (CO) sensors, visualizing the data in real-time on ThingSpeak.
  - Provided real-time alerts using LEDs and a buzzer based on air quality, with the data also displayed on an LCD.
- **Process Scheduler**
  - Developed and implemented CPU scheduling algorithms: FCFS, Round Robin, Priority Preemptive and Non Preemptive, Shortest Job First (SJF), Shortest Remaining Time, and Priority Scheduling.
  - Managed process tracking using lists and event timelines for precise waiting and turnaround time calculations.
  - Designed an extendable CPUScheduler framework to support multiple scheduling algorithms.

Proficiency

- **Skills:** C/C++, Python, Node.js, MySQL, HTML5, CSS3, JavaScript, Java, LaTeX
- **Awards:** Recipient of the Chancellor's Award for Excellence in Undergraduate Research (2025) by SRM Institute of Science and Technology for publishing a Scopus-indexed paper in 2024, secured 2nd position in IE(I) Ideathon, and received the 'Best Project' award at the Semiconductors Expo.
- **Hackathons:** HackNova, CAD 2.0 and Layer.
- **Publications:** P. Ghosh, A. Shukla, B. C. V and F. Yakub, "Predicting Illnesses through Symptomatic Patterns through Ensemble Voting Regressor," 2024 Second International Conference on Advances in Information Technology (ICAIT), Chikkamagaluru, Karnataka, India, 2024, pp. 1-6, doi:10.1109/ICAIT61638.2024.10690506.
- **Certifications:** Certified in Data Preparation and Micro Credential (Alteryx), GitHub Foundations (GitHub), Java SE 11 Developer (Oracle), Machine Learning (AWS, NPTEL, Udemy), Communication Networks (NPTEL), Database Management Systems (DBMS) and Computer Networks (Scaler), and Internet of Things (IoT), Artificial Intelligence (AI), Artificial Neural Networks (ANN), and Data Science (Udemy).
- **Clubs:** Ex-member of prestigious clubs like Coding Ninjas, SRM Team Hackathon, and Directorate of Student Affairs