NEHA SINGH

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EDUCATION

Vellore Institute of Technology, Vellore, Tamil Nadu, India   **Expected: July 2024**
Bachelor of Technology in Information Technology | CGPA: **8.23/10.00**
Relevant Courses: DBMS, Data Mining, Data Structures and Algorithms, Big Data Analytics, OOPS, Java, Software Testing, Cloud Computing, Artificial Intelligence, Machine Learning, Deep Learning

TECHNICAL SKILLS

- **Languages and Databases**: Java, Python, JavaScript, R, HTML, JSON, XML, Visual Studio Code, SQL, MariaDB.
- **Tools:** AWS, Docker, FIGMA, Jupyter Notebook, Power BI, MS Office tools, CISCO Packet Tracer, Selenium.
- **Technical Knowledge**: Data Preprocessing, Visualization, Data Modeling, Data Cleaning, Statistical Analysis, Descriptive Analysis, Data Mining, Big Data, Web Scraping, APIs, Machine Learning.
- **Soft Skills:** Leadership, Logical Reasoning, Public Speaking.

ACADEMIC PROJECTS AND RESEARCH PAPERs

- **KYC Engine**
  A system that verifies each person's identity using Aadhar, passport, and PAN verification with Facial verification.
  Technologies: Python**, Flask, OpenCV**, HTML, CSS, JavaScript, Bootstrap, Tailwind, **AWS DynamoDB** (encryption of confidential data of user)
- **Deep Iris Detection Model using Python and TensorFlow**
  Developed a real-time Deep Iris Detection Model using Computer Vision. Based on ResNet152V2 architecture, detects, and localizes iris key points in eye images. **Technologies:** Python, TensorFlow, Deep Learning, Image Processing.
- **Mini Projects:**
  Weather App: Created Weather App with ReactJS, delivering real-time updates from 100+ locations to users.
  Twitter Bot: Led 40% brand reach boost via Twitter Bot, enhancing engagement and personalization.
  Sticky notes: Crafted Sticky Notes app using JavaScript, catering to 50+ users for seamless note-taking.
- **Software Testing of Content Management System**
  Functional Testing of the web application using **SELENIUM** using Java.
- **Research Paper: A SECURE PEER TO PEER IMAGE SHARING USING RUBIK'S CUBE ALGORITHM (***April 2023***)**
  Novelty: Discovered 3 novel methodologies of sharing an image securely in a peer-to-peer network with the help of KDC: **standardization, communicating the dimensions and using the session key**. Implementation is done using **Python**.

PROFESSIONAL EXPERIENCE

- **Accenture- Advanced Engineering Intern**   **June 2023- July 2023**
  Engaged in IRCS-Risk-NA-CrossMU project for the Indian Red Cross Society, aligning with risk management goals. Developed a comprehensive risk assessment framework, adhering to industry best practices and regulations.
- **Hellbent-AI and Machine Learning Intern**   **December 2022-May 2023**
  Worked as a Data Science intern and completed 30+ data science tasks like **Loan Eligibility Prediction Model, House Price Prediction Model, Fashion MNIST,** Database and data analytics in SQL task **Sun Medical Hospital database**, Basic AWS Cloud.
- **ASOWin- Operations Intern**   **November 2022-December 2022**
  The sole Operations intern on the App Optimization team, effectively managing client needs daily.
- **BYJU's- Frontend Web Developer**   **July 2022-September 2022**
  Collaborated with a team of 10 web developers on **Tooljet** software, creating apps such as Timetable Administrator and BranchManager for BYJU's Tuition Center.
- **Microsoft Engage 2022**   **May 2022 - July 2022**
  Accepted into the Microsoft Engage Mentorship Program which has an 8% acceptance rate.

LICENSES AND CERTIFICATIONS

- AWS Certified Solutions Architect - Associate certification [SAA-C03]
- Microsoft Certified: Security, Compliance, and Identity Fundamentals [SC-900]
- IBM Python for Data Science, AI & Development

LEADERSHIP & ACTIVITIES

- **Outreach Head-** Spearheaded the Outreach Team, overseeing a cohort of 60 individuals in the successful execution of a diverse range of events, including the prestigious VinPrep and VinHack organized by **VinnovateIT** at VIT.
- **FEPSI-NGO-** Pioneered Project ULLAS which consisted of 30 people at FEPSI-NGO, a transformative initiative aimed at extending outreach efforts to underprivileged children across India in 20+ NGOs.
- **IEEE CS-** Developed a portal for 5000+ students to register for recruitment which gave them a brief insight into the chapter. Used technologies like HTML, CSS, Tailwind, Bootstrap, JavaScript.