Kushaj Arora

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EDUCATION

Degree	Institute	Board / University	CGPA/Percentage	Year
B.Tech CSE	Vellore Institute of Technology	Vellore, Tamil Nadu	8.71	2020-2024
Senior Secondary	DAV Public School, Gurgaon	CBSE	93.2%	2020

- **Achievements**: **JEE Advance Rank: 14,832**/1,50,838 & JEE **Mains: 98.6** Percentile

EXPERIENCE

- **AI Works Intern** *May 2023 - July 2023*
  Max Life Insurance Company Limited Gurgaon
  - **SamRiddhi**: **Successfully Implemented** a **customizable, interactive, and automated tool** using Python for incentive calculation,following the Agile Software Development Life Cycle (SDLC) approach.
  - **Collaborated** across teams to **gather** bonus calculation requirements and **understand business logic**.
  - Expertly **built efficient data pipelines**, integrating with SQL databases for real-time data access.

- **Academic Prism Research Intern** *Dec 2022 - May 2023*
  Samsung R&D Institute Remote
  - **System Study** to design and implement a robust real-time multi-stream synchronization process for Video/VoLTE calls addressing network delays, jitter, and skew.
  - **Evaluated NTP and RTP-based stream synchronization methods** to determine the optimal approach for the system.
  - **Validated precise synchronization** of all data sources, enhancing the overall quality as part of the research.

- **Frontend Development Intern** *May 2022 - July 2022*
  Sumfactor Software Pvt. Ltd. Gurgaon
  - Implemented **responsive frontend development using Bootstrap 4 framework for visually appealing designs.**
  - **Customer-centric approach** to accurately translate client requirements to specific design implementation.

PROJECTS

- **PDFs Chatroom** *Mar 2023 - June 2023*
  Tools & Technologies: Langchain, OpenAI-Embeddings, Hugging Face, Streamlit ⬤ **Github**
  - **Developed** a Streamlit project **enabling PDF upload and data extraction** for efficient information retrieval.
  - **Utilized Langchain** to process the PDFs, extracting relevant data and creating meaningful chunks.
  - **Integrated OpenAI model embeddings with API key for vectorization** and accurate responses to user queries.
  - **Leveraged the Hugging Face instructor model** with API key to test another vectorization model.

- **ResumeSmartMatch** *Jan 2023 - Feb 2023*
  Tools & Technologies: Streamlit, NLP, Matching Algorithm, Analytics-MatplotLib ⬤ **Github**
  - **Developed** Streamlit app for **automated parsing and extraction of information using advanced NLP techniques**.
  - **Created** a sophisticated algorithm for **efficient matching and screening, benefiting recruiters and candidates**.
  - **Empowered** recruiters with **visualisation on resumes using detailed analytics**, enabling informed decision-making.

- **PhishingSafeguard** *Oct 2022 - Dec 2022*
  Tools & Technologies: Machine Learning & DL Algorithms, Jupyter Notebook, Pandas, Numpy ⬤ **Github**
  - **Led** a team of three in developing a Phishing Website Detector using **Recurrent Neural Network (RNN)** and Streamlit.
  - **Trained** the model with a **comprehensive dataset**, enabling accurate identification of phishing websites.
  - Achieved exceptional accuracy of **97.06% through meticulous hyperparameter tuning**.

- **SecureBankEncrypt** *Jan 2022 - May 2022*
  Tools & Technologies: Jupyter Notebook, Cryptographic Algorithms ⬤ **Github**
  - Developed **RSA, IDEA, and ECC algorithms to encrypt and decrypt** sensitive information, ensuring robust data protection.
  - **Utilized hashing techniques to securely store** and validate user PINs.
  - Conducted rigorous testing and analysis to verify the effectiveness and reliability of encryption system.

TECHNICAL SKILLS

- **Programming Languages**: Python, Java, C/C++, PhP, SQL
- **Tools and Frameworks**: Jupyter NoteBook, Visual Studio, Figma, Microsoft Sysinternal & Social-Engineering Toolkit
- **Coursework**: Operating Systems, Database Management Systems, Statistics & Data Structures And Algorithms

CERTIFICATIONS

- **SC:900 Microsoft Security, Compliance, and Identity Fundamentals** Microsoft ↗
- **Google Analytics Certification** Google ↗
- **IBM Cybersecurity Analyst Assessment** Coursera ↗

PUBLICATIONS

- **Parallelization of Face Detection using OpenMP** ↗ *2023*
- **Spyware Detection Using Emerging Machine Learning Techniques** Under Review: BJIT/Springer *2023*

POSITIONS OF RESPONSIBILITY

- **VICE-CHAIRPERSON** IET-VIT, VIT VELLORE *Jan 2022 - Jan 2023*
- **EVENT & SALES CORDINATOR** GRAVITAS, Techno- Management Fest of VIT VELLORE *Aug 2022 - Oct 2022*