B R Arjun

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EDUCATION

- **PES University**   Bangalore, India
  Bachelor of Technology in Computer Science(AI-ML); CGPA:8.65   *Nov. 2022 – Present*

SKILLS

Languages: **Python, C, Java, Javascript, Typescript, SQL**

Libraries/Frameworks: **Transformers, NLTK, FastAPI, OpenCV, Pytorch, Tensorflow, Langchain, Flask**

Cloud and Other Tools: **Docker, Kubernetes, AWS, Git,**

DBMS: **MySQL, MongoDB, Firebase, ChromaDB**

Big Data: **Apache Spark, Hadoop, Kafka, Apache Hive, Flink**

EXPERIENCE

- **IEEE CS**   PES University, Bangalore
  ML Research Intern   *Jul 2024 - Aug 2024*
  - **Pytorch and Tensorflow (Converted to a Research Paper)**:
    - Designed and implemented a novel hybrid GAN-VAE model to achieve artistic style transfer to sketch style.
    - Achieved 40% improved style preservation over existing baseline models (CycleGAN, StyleGAN, AttentionGAN)

- **Appex PESU**   PES University, Bangalore
  Technical Core   *Jan 2024 - Present*
  - **App Genesis**:
    - Organized and led a 24-hour hackathon - Horcrux, by Appex Club at PES University, focusing on mentoring participants on the overall implementation of their idea, guiding teams to overcome problems, and evaluating and improving solutions.

PROJECTS

- **Cropify**:
  - Developed a full-stack agri-assistance platform with React.js & Flask, using ML/DL for personalized crop & fertilizer recommendations.
  - Implemented real-time plant disease detection with deep learning, automating diagnosis and treatment for data-driven farming.

- **DevForge**:
  - Engineered an AI-powered dev environment with LLMs and containerized runtimes, automating code generation, execution, and error correction.
  - Developed a web-based IDE with project management tools and an interactive console for seamless development.

- **Attendee**:
  - Developed an OpenCV-based face detection system achieving over 95 percent accuracy in identifying faces.
  - Built an attendance recorder integrated with the face detection, streamlining attendance tracking with high precision.

- **TUIPad**:
  - Developed a terminal-based text editor using Python's curses module, packaged with PyInstaller for cross-platform compatibility.
  - Integrated an AI assistant within the terminal using LLaMA and the Groq API to enhance productivity.

ACTIVITIES AND ACHIEVEMENTS

- Finished among the Top 10 teams in Nexgen 2.0, the national level hackathon organized by Nexus Club @PES University.
- Finished among the Top 5 teams in Dotslash 5.0 organized by Aatmatrisha Club @PES University.
- Finished among the Top 10 teams in Arithemania organized by Shunya Club @PES University.