Shreyas Salankimatt

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Education

JSS Academy of Technical Education — Bengaluru, KA
Bachelor of Engineering in Computer Science — *Oct. 2022 – Feb. 2026*

Presidency School — Bengaluru, KA
1st to 10th Grade — *June 2010 – Jan. 2020*

Experience

Undergraduate Research Intern — October 2024 – Present
JSS Academy of Technical Education — *Bengaluru, KA*

- Conducted a comparative analysis of 30+ Convolutional Neural Network (CNN) architectures using benchmark datasets to evaluate classification accuracy and computational efficiency.
- Designed and implemented a custom Quantum Convolutional Neural Network (QCNN) achieving 81.7% accuracy, outperforming standard CNN baselines in specific image recognition tasks.
- Utilized tools like TensorFlow, Pennylane, and Matplotlib to visualize model performance and identify architectural improvements; contributed findings to ongoing literature review for publication.

Projects

TaskMatch AI | *React.js, Express.js, FastAPI, FerretDB, Docker, Gemini AI, HuggingFace*

- Built a dynamic, AI-powered task allocation system that matches job descriptions with ideal employee profiles using semantic similarity and vector search.
- Used FastAPI for backend APIs and integrated Gemini AI to extract roles and top skills from unstructured job descriptions.
- Leveraged HuggingFace Sentence-Transformers to generate embeddings and performed efficient similarity search via FerretDB with vector indexing.
- Ranked employees using a weighted scoring system (70% role, 30% skills match) to optimize candidate-job fit.
- Containerized the full stack using Docker, enabling seamless local development and scalable deployment.

E-Cycle | *Python, Flask, Google Maps API, Jinja2, CSS, Javascript* — GitHub

- Created an innovative platform offering doorstep e-waste pickup services with user rewards.
- Implemented backend using Flask and MongoDB for efficient user authentication, order management, and delivery partner coordination.
- Designed a user-friendly frontend with Jinja, CSS, and JavaScript to enhance user experience.
- Achieved 5th place in a hackathon out of 45 teams nationwide, earning a cash prize of Rs. 2,500.

VTU Student Hub | *SymPy, NumPy, Flask, Jinja2, CSS* — GitHub

- Developed a student platform for institutions under VTU (Visvesvaraya Technological University) that provides easy access to learning resources, problem solvers, and CGPA/SGPA calculators to 5000+ students.
- Implemented Python and Flask for backend development, integrating math lab programs and resources for quick student reference.
- Published the platform online for public use at VTU HUB.

Report Generator and Mailer | *Flask, ReportLab, jQuery* — GitHub

- Developed a web application to automate the creation of personalized PDF reports based on data from Excel files.
- Integrated ReportLab for generating custom PDF reports, enhancing the academic reporting process for institutions.
- Implemented email functionality to automatically send generated reports to students, reducing manual effort and increasing efficiency of professors by up to 50%.

Technical Skills

Languages: Java, Python, C/C++, SQL, JavaScript, HTML/CSS
Frameworks: React, Node.js, Flask, Express.js
Developer Tools: Git, Docker, Google Cloud Platform, VS Code, Amazon Web Services (AWS)
Libraries: pandas, NumPy, Matplotlib, SymPy, reportlab, TKinter, open3D