Sahil Dineshbhai Pambhar

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Education

- **Master of Science in Computer Science** *09/2023 - 05/2025*
  Stevens Institute of Technology, Hoboken, New Jersey.
- **Bachelor of Engineering in Computer Science** *07/2019 - 06/2023*
  Gujarat Technological University, Gujarat, India.

Technical Skills

Programming Languages & Technologies: Python, JavaScript, Go, Java, C/C++, SQL
Libraries & Frameworks :OpenCV, Langchain, PyTorch, openAI, ReactJS, Flask, Django
Databases & other tools : MySQL, PostgreSQL, MongoDB, DynamoDB, Git, Github
Automation: Jenkins, selenium, Docker, Databricks, AWS

Experience

- **Software Development Intern** *06/2025 – Present*
  Curantis Solutions Addison, TX
  - Engineered a dynamic backend service in Go to automatically select the correct report generation logic based on patient benefit types (e.g., Medicare, Medicaid), improving the accuracy of eligibility checks.
  - Developed a user-facing feature in Angular enabling patients to directly access and edit their insurance policy numbers, streamlining data management and empowering user self-service.
  - Contributed to a critical patient eligibility feature using a serverless AWS architecture, processing data with Lambda, storing records in DynamoDB, and securing credentials in S3 to ensure accurate billing
- **Software Developer Intern** *05/2024 – 08/2024*
  Bluesap Solutions New York, NY
  - Improved the SDLC for an ongoing client project by adding caching techniques, which helped speed up testing and deployment.
  - Worked on front-end development using ReactJS to improve user experience and increasing front-end load time efficiency by 35%.
  - Optimized API latency by 25% by implementing in-memory caching and reducing DB calls in Flask-based microservice, improving throughput under concurrent load.
- **Full stack Developer** *12/2022 - 07/2023*
  Vrutti Technologies Surat, Gujarat, India
  - In a team of 3 developed a product that utilizes computer vision to validate Design for Manufacturability (DFM) rules for PCBs, achieving 91% accuracy in error detection and reduced manufacturing defects by 20% .
  - Set up and maintained CI/CD pipelines using Jenkins, boosting software delivery capability by 80% eliminating manual processes and reducing deployment time from hours to minutes.
  - Built an AI chatbot, DOCGPT, powered by a locally-hosted Nous-Hermes LLM, processing 10+ formats (CSV, PDF, PPTX) into a secure knowledge base. Delivers context-aware Q&A with citations, ensuring data privacy and eliminating external dependencies.
  - Collaborated within a 4-member team to design and develop an AngularJS based front-end for DOCGPT while integrating REST APIs to ensure seamless communication between the backend and frontend.
- **Summer Intern** *06/2022 - 07/2022*
  Dot com IoT LLP Surat, Gujarat, India
  - Contributed to a machine learning project focused on detecting defects in metal pipe welding, utilizing supervised learning models to improve defect detection accuracy by 15%, gaining hands-on experience in practical machine learning applications with real-world data.
  - Established proficiency in essential Python libraries for machine learning, including NumPy, Matplotlib, Pandas, and scikit-learn, during tenure at DOT COM IOT LLP, accelerated skill development in the field of data science and advanced analytics.

Projects

- **SurroundShield** - *Node.js, ReactJS, Llama 3.3, Python Flask, MongoDB*
  - An AI-powered safety application that delivers personalized risk alerts by analyzing location data and health metrics, protecting users from environmental hazards including extreme weather, pollution spikes, and natural disasters with 95% precision in recommendations.
  - Implemented Databricks Playground for Fine-tuning & integrating LLM. Used ReactJS, RESTful API endpoints and MongoDB to deliver personalized health insights, risk assessments, and natural language query processing .
- **SpendWise** - *ReactJS, Django, MySQL*
  - Developed SpendWise, a personal finance budgeting application with gamified goal tracking , interactive dashboards for monthly spending limits, and expense logging.
  - Used by 15 users in beta with 40% goal completion increase. Backend optimized for scale with REST APIs and async DB access.
  - Built a scalable backend using Django and MySQL with RESTful API endpoints to power interactive progress meters and smart reminders, integrating a React-based frontend to deliver a seamless experience.
- **Image Authenticity Detector** - *Python, Sklearn, PyTorch, matplotlib*
  - Crafted Image authenticity detector that distinguishes between real and AI-generated images with 89% accuracy, trained across 10,000 images, helping combat digital misinformation and deepfakes.
  - Managed full data pipeline, including data preparation, model tuning, image predictions, and accuracy assessments, reducing preprocessing time by 80%. Leveraged sklearn, torch, torchvision, and matplotlib to develop robust evaluation framework.