

# Sathwik Bharadwaj Udupi (Preferred Name: Vik)

+61-0492836152, u.sathwik1@gmail.com, <https://www.linkedin.com/in/sathwik-bharadwaj/>

Portfolio: [www.sath-wik.dev/](http://www.sath-wik.dev/)

## SUMMARY

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- 15 months of QA experience at Accenture, delivering end-to-end testing, automation, and deployment in fast-paced Agile environments.
- Developed Selenium frameworks and Python automation scripts, improving test coverage by 40% and reducing manual effort by 70%.
- Applied data science skills in projects like gym pose estimation with 3D CNNs and sentiment analysis pipelines using Python, SQL, and ML tools.

## EDUCATION

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### Master of Information Technology: Data Science and Engineering

May 2023 - May 2025

#### University of New South Wales

WAM: 74.

Electives: Machine Learning and Data Mining, Neural Networks and Deep Learning,  
Big Data Management, Database Systems Implementation, Computer Vision.

### Bachelor of Engineering: Computer Science & Engineering

August 2017 - July 2021

#### Mangalore Institute of Technology & Engineering

CGPA: 8.45.

Electives: Data Mining and Data Warehousing, NLP, Unix and Shell Programming  
Bigdata Analytics, IoT.

## EXPERIENCE

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### Application Development Associate

October 2021 - January 2023

#### ACCENTURE TECHNOLOGY PVT LTD

- Acted as primary point of contact for a mission-critical web application, coordinating between development, QA, and business teams to ensure seamless communication and timely delivery of features.
- Managed QA, UAT, and production deployments, overseeing end-to-end testing cycles, release planning, and monitoring post-deployment performance in a high-pressure Agile environment.
- Automated the UAT access permission process by developing Python scripts to parse CSV files and grant permissions, reducing manual effort by 70% and improving accuracy.
- Executed functional, non-functional, and regression testing, developing Selenium-based automated test suites to accelerate testing cycles and improve coverage by 40%.
- Awarded Bravo Level Recognition by Accenture leadership for contributions to key project milestones, defect reduction, and overall delivery quality.
- Delivered knowledge transfer sessions and created onboarding documentation to upskill new team members, reducing training time by 30% and ensuring smooth project continuity.

## EXTRACURRICULARS AND ACHIEVEMENTS

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- **Berry-Jam Contest (Jul 2024):** Achieved 11th place in a low-data image classification challenge using augmentation and ensemble.
- **Bravo Recognition – Accenture:** Awarded Bravo Level Recognition by Accenture leadership for contributions to key project milestones, defect reduction, and overall delivery quality.
- **NMAMIT CIRCUIT – 02 (Jun 2021):** Secured 2<sup>nd</sup> Place in Online Code Hackathon conducted by Computer Society NMAMIT Nitte in collaboration with HackerEarth Hub.

## SKILLS

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- Programming & Scripting: Python, SQL, C, C++, Java
- Data Science & Analytics: Exploratory Data Analysis (EDA), Data Cleaning, Feature Engineering, Data Visualization (Matplotlib, Seaborn), Statistical Analysis
- Machine Learning & AI: Supervised & Unsupervised Learning, Ensemble Methods, NLP (LangChain, Transformers, OpenAI API), Deep Learning (CNNs, LSTMs, Transfer Learning)
- Frontend Development: React.js, Atlassian Forge UI
- Databases: MySQL, PostgreSQL, MongoDB, ArangoDB (NoSQL), BigQuery
- Cloud & DevOps: Docker, Kubernetes, Render, Azure (Blob Storage, Deployments)
- QA & Automation: Selenium, Python Scripting for QA, Test Case Design, Bug Reporting (JIRA)
- Tools & Platforms: Git, Postman, JIRA, VS Code, Confluence, DockerHub

## PROJECTS

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### Gym Pose Detection

- Developed a video-based gym pose classification system leveraging 3D CNNs and Time-based CNNs to recognize and evaluate workout movements.
- Preprocessed video datasets by extracting frames, normalizing input sequences, and applying augmentation for model generalization.
- Achieved accurate classification of exercise poses, enabling potential use cases in fitness tracking, posture correction, and smart training assistants.

### Automatic Quiz Generator

- Built a full-stack Atlassian Forge app integrating with Confluence to auto-generate quizzes using LangChain + OpenAI API, with constraints defined via the frontend.
- Implemented MongoDB Atlas for storage, containerized the backend with Docker, and deployed on Render cloud, enabling scalable, automated quiz generation.

### Berryjam Contest 2024

- Built an image classifier with 5 positive/negative samples per class using augmentation and models like VGG16, ResNet, Inception, SVM, Random Forest.
- Boosted accuracy by ensembling models with majority voting, creating a low-data adaptable classification pipeline.

### Story Telling Using Lifelogging (May 2021)

- Implemented a deep learning model (VGG16 + LSTM) to generate contextual sentences and coherent stories from sequences of captioned images.
- Processed image datasets, extracted spatial features with CNNs, and captured temporal dependencies with LSTMs for sequential storytelling.
- Produced meaningful and automated storytelling outputs, showcasing applications in assistive technologies and digital media.

## CERTIFICATIONS

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- Certified Automation Engineer (Specialist) - Accenture (Jun 2022).
- Certified Automation Practitioner (Foundation) - Accenture (Mar 2022).
- React Training - Internshala (May 2021).
- Neural Networks and Deep Learning - Coursera (Nov 2020).