Sathwik Bharadwaj Udupi (Preferred Name: Vik)

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CAREER PROFILE

- Master's Graduate in IT (Data Science & Engineering) at UNSW with strong foundation in machine learning, predictive modelling, and computer vision.
- Developed end-to-end ML projects including image classification, NLP applications, and deep learning systems with 85%+ accuracy.
- 15 months technical experience building Python/Java automation frameworks and collaborating with cross-functional teams.
- Proficient in supervised/unsupervised learning, neural networks, feature engineering, and model evaluation using industry-standard tools.

EDUCATION

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

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, regression testing, API testing and performance testing developing Selenium-based automated test suites to accelerate testing cycles and improve coverage by 40%.
- Delivered technical presentations and created documentation, effectively communicating complex technical concepts to non-technical stakeholders.
- Awarded Bravo Level Recognition by Accenture leadership for contributions to key project milestones, defect reduction, and overall delivery quality.

EXTRACURRICULARS AND ACHIEVEMENTS

- **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 2nd Place in Online Code Hackathon conducted by Computer Society NMAMIT Nitte in collaboration with HackerEarth Hub.

SKILLS

- Programming & Scripting: Python, SQL, C, C++, Java, Rust
- 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, Apache Airflow, Apache Kafka.

PROJECTS

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

- Certified Automation Engineer (Specialist) - Accenture (Jun 2022).
- Certified Automation Practitioner (Foundation) - Accenture (Mar 2022).
- ETL and Data Pipelines with Shell, Airflow and Kafka - IBM - Coursera (Oct 2025).
- Databricks Fundamentals Accreditation – Databricks Academy (Nov 2025)

REFERENCES

- Anand Viswanath Iyer (AI and Data Consultant) – Deloitte (Sydney, Australia) - Anandviswanathiyer@gmail.com