



Niharika Shilamamidi

Email: niharika.shilamamidi@students.mq.edu.au

Sydney, NSW, Australia | +61 410355442

Career Objective

Passionate master's student in Information Technology specializing in Artificial Intelligence at Macquarie University. Proficient in Machine Learning, Natural Language Processing, and Computer Vision, Generative AI with hands-on experience in implementing AI solutions. Skilled in Python, Java, and automation, with a proven track record in software development, building automation solutions and teaching. Committed to driving innovation through technology, I excel in optimizing workflows, mentoring students, and tackling complex technical challenges. Actively seeking opportunities to contribute expertise in AI, ML to real-world applications.

Education

Macquarie University, Sydney, NSW, Australia

Feb 2024 – Dec 2025

Master of Information Technology, Specialization in Artificial Intelligence

Vignana Bharathi Institute of Technology, Hyderabad, India

2018 – 2022

Bachelor of Technology, Computer Science and Engineering

Experience

Macquarie University, Sydney, NSW, Australia

Sessional Teaching Associate, School of Computing.

Feb 2025 – Present

- Facilitate tutorials and lab sessions on Java and Python, guiding students through coding and debugging.
- Provide tailored feedback and grade assignments to enhance students' programming skills.
- Foster an inclusive learning environment, promoting best coding practices and algorithmic thinking.
- Collaborate with course coordinators to align tutorials with learning objectives.

Macquarie University, Sydney, NSW, Australia

Project Officer, Faculty of Science and Engineering

Nov 2024 – Present

- Develop automation solutions to streamline administrative workflows, enhancing operational efficiency.
- Design and implement systems for data management, processing, and reporting to support data-driven decisions.
- Collaborate with faculty to identify inefficiencies and deliver tailored process improvements.
- Monitor and refine automated systems to ensure accuracy and seamless integration.

Wego.com, Bengaluru, Karnataka, India

Software Engineer

Apr 2022 – Sep 2023

- Integrated airlines and travel agencies into Wego's booking system, enhancing platform functionality.
- Developed and maintained microservices using Java, MySQL, and APIs, ensuring robust backend frameworks.
- Utilized Jenkins, Ansible, and Docker for efficient production deployments.

- Contributed to end-to-end development, improving real-time travel rate comparisons for over 700 travel sites.

EpsilonPi, Hyderabad, Telangana, India

Machine Learning Mentor

Apr 2021 – Aug 2022

- Conducted Python and Machine Learning bootcamps, mentoring students to develop 30+ minimal viable products.
- Organized a 24-hour hackathon, collaborating with sponsors like Microsoft and Monster 365.
- Provided personalized guidance to enhance mentee performance in machine learning projects.

CodVis, Hyderabad, Telangana, India

Machine Learning Intern

Jul 2021 – Apr 2022

- Developed data visualization tools using Python, Django, and machine learning techniques.
- Expanded expertise in data analysis and machine learning, contributing to team-based projects.
- Demonstrated leadership and adaptability across various technical domains.

Technical Skills

- **Programming:** Python, Java, C++
- **ML/AI Frameworks:** TensorFlow, PyTorch, Keras, Scikit-learn, XGBoost, LightGBM
- **Technologies:** Machine Learning, Data Science, NLP, Computer Vision, Docker, Git, Jenkins, Ansible
- **Data Handling & Analysis:** Pandas, NumPy, Apache Spark, SQL
- **Visualization:** Matplotlib, Seaborn, Plotly, Tableau, Power BI
- **Tools:** Jupyter Notebook, Postman, MySQL, LangChain, HuggingFace
- **Languages:** English, Hindi, Telugu

Projects

- **Forecasting the Lifespan of a Country:** Developed a machine learning model to predict socio-economic trends.
- **Google Ad Price Prediction:** Built a model to forecast advertising costs using machine learning techniques.
- **News Category Classification:** Created a system to categorize news articles with NLP algorithms.
- **Loan Prediction:** Designed a predictive model for loan approval using machine learning.

Certifications

- Programming Essentials in C, Python – Cisco
- Programming for Everybody (Getting Started with Python), Python Data Structures – Coursera
- The Complete Web Developer 2021 – Udemy
- Face Recognition App Using Python – GUVI Geek Networks, IITM Research Park
- AWS Academy Machine Learning, Cloud Foundations – Amazon Web Services (AWS)
- Security Specialist, Python Core