SAYALI LOKHANDE

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EDUCATION

University of California, Davis   **Sept 2024 - Jun 2026 (Expected)**
Master of Science in Computer Science

Indian Institute of Technology(IIT), Dharwad   **Nov 2020 - April 2024**
Bachelor of Technology in Electrical Engineering   CPI - 8.64
Coursework: Computer Programming, Microprocessors & Microcontollers, Discrete Structures, Data Structures & Algorithms, Linear Algebra, Introduction to Probability, Data Analysis, Calculus, Optimization Theory & Algorithms

PUBLICATIONS

- Akash Poptani; **Sayali Lokhande**; Rahul Jashvantbhai Pandya; Sridhar Iyer *Decoding Drought: Embracing Simplicity in Effective Predictive Models* https://doi.org/10.1109/AGERS61027.2023.10490664
  IEEE Asia-Pacific Geosciences, Electronics and Remote Sensing (AGERS 2023) - **Best Student Presenter**

- Dr. R. E. Ugandar; R. Ganesh; **Sayali Lokhande**; et al. *Artificial Intelligence based approach to analyse the impact of green gold nanoparticles in cancer therapy and diagnosis*
  Indian Patent Application Number - 202341027779, Status - Published on May 05, 2023

INTERNSHIPS

Research Intern   August 2023 - April 2024
Durham University, England

- Tackling with class imbalance using data augmentation, working on image blending techniques including poisson blending and diffusion models for classification of plant species in a natural habitat, under Prof. Paolo Remagnino

Research Intern   May 2023 - Nov 2023
Indian Institute of Technology, Bombay

- Improving adaptation performance of source-domain trained model on unlabeled target domain without accessing source data and reducing catastrophic forgetting, under the guidance of Prof. Biplab Banerjee

Back End Developer Intern   November 2022 - April 2023
Careerbolt

- Working with cloud infrastructure, setting up APIs, building the authentication system on AWS using Amazon Cognito, AWS Lambda, DynamoDB, API Gateway

Full Stack Developer Intern   May 2022 - June 2022
Maqure Ventures Private Limited

- Building front-end part of E-commerce web application of chemical products using ReactJs, HTML, CSS

WORK PROJECTS

ML Based Vegetative Drought Prediction   August 2023 - January 2024

- Using satellite and meteorological data for vegetative drought prediction, implementation and analysis of several ML/DL based models, under the mentorship of Prof. Rahul Pandya

Satellite Data Analysis   January 2023 - April 2023

- Analyzed satellite data of water bodies and forest cover, implementing cloud removal algorithm using GAN and predicting future cover using deep neural networks under Prof. Rajshekhar Bhat

Deep Learning for Underwater Communications   January 2023 - April 2023

- Modeled end-to-end communication systems for communicating underwater and over the air channels using lasers, PYNQ and Arduino boards, deep neural networks, under Prof. Rajshekhar Bhat

Deep Learning Applications in 5G RACH Procedure   July 2022 - November 2022

- Used deep learning techniques like LSTM, Arima to optimize the performance of RACH procedure in 5G networks and generated synthetic data for each user using GANs under the guidance of Prof. Siba Narayan Swain

TEACHING EXOERIENCE

Teaching Assistant   August 2023 - Nov 2023
Indian Institute of Technology, Dharwad

- Assisted in CS103: Introduction to C Programming course by providing guidance in coding practices, clarifying concepts, troubleshooting issues, and grading assignments and lab exams for over 20 students

SKILLS

Python, C, C++, Java, ML Frameworks (Keras, PyTorch, TensorFlow, Pandas), OpenCV, LaTeX, HTML, CSS, JavaScript, SQL, MATLAB, ReactJS

ACHIEVEMENTS

- **Best Student Presenter** at IEEE Asia-Pacific Geosciences, Electronics and Remote Sensing (AGERS 2023)
- Got selected and attended **AI + Science Summer School 2023** on applications of AI and Machine learning held at University of Chicago, Illinois
- **Bronze Medal** in ISRO'S Web Based Visualisation Tool For Astrosat Observations in **Inter IIT Tech Meet 9.0** held at IIT Guwahati
- **AWS AI & ML Scholarship** - Received a scholarship for AI Programming with Python Nanodegree program

CERTIFICATIONS

- Supervised Machine Learning: Regression and Classification (by Stanford and DeepLearning.AI on Coursera)
- Algorithmic Toolbox (by University of California San Diego on Coursera)
- Cognizant Artificial Intelligence Virtual Experience Program (Forage)

EXTRA-CURRICULAR ACTIVITIES

- Robotics Club Secretary - Organising events or sessions related to robotics, guiding the club members
- DAMP(Department Academic Mentorship Program) Mentor, Institute Student Mentor - Guiding my mentees through academics and extra-curriculars
- Event Management Team Member (PARSEC - Annual Techfest of IIT Dharwad)
- Code Geass Coding Club Member - Participated in coding contests of the club, Sapphire Dance Club Member - Participated in group dance in Inter IIT Cultural Meets 5.0 and 6.0
- Technical Team Member (Career Development Cell, IIT Dharwad)