




Ketaki Gokhale

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EDUCATION

University of Illinois Urbana-Champaign (Incoming) <i>Master of Computer Science</i>	Jan 2024 – May 2025 Champaign, IL
Pune Institute of Computer Technology <i>Bachelor of Engineering - Computer Engineering, GPA: 8.71/10</i> <ul style="list-style-type: none">Relevant Coursework: Data Structures and Algorithms, Object-Oriented Programming, Database Management Systems, Web Technology, Machine Learning	August 2017 – May 2021 Pune, India

TECHNICAL SKILLS

Programming Languages: Python, C++, DataWeave, HTML/CSS, JavaScript, RAML
Frameworks and Tools: Docker, Git, Jenkins, Postman, Mule ESB, MUnit
Libraries: NumPy, Pandas, React.js, Keras, TensorFlow, PyTorch
Databases: MySQL, Firebase, MongoDB

WORK EXPERIENCE

Research Assistant <i>Pune Institute of Computer Technology</i> <ul style="list-style-type: none">Investigating methods for continuous sign language recognition using deep learning under Prof. R. Sreemathy.Assisting in developing a comprehensive dataset for continuous recognition of Indian Sign Language.	August 2023 – Present Pune, India
Backend Developer <i>Private AI</i> <ul style="list-style-type: none">Implemented pre-commit hooks in Python to detect Personally Identifiable Information (PII).Experimented with model ensembling and improved the average recall of the PII redaction model by 9%.Investigated and resolved high-priority bugs and system failures.	August 2022 – February 2023 Toronto, Canada (Remote)
Software Engineer <i>Apisero</i> <ul style="list-style-type: none">Re-designed an API using MuleSoft for a major healthcare client, making it simplified and multi-functional.Implemented FTP and Mail connectors to interface with respective target systems in multiple Mule projects.Boosted the performance of an API from 0.2 requests per second to 10 requests per second.Maintained Jenkins pipelines to facilitate reusability and automation in different target environments.Worked on modifying and implementing various crucial DataWeave transformations.	February 2021 – July 2022 Pune, India
Machine Learning Intern <i>Makers Lab, Tech Mahindra</i> <ul style="list-style-type: none">Developed a solution to perform image captioning using TensorFlow as an aid to the visually impaired.Implemented an encoder-decoder architecture and utilized InceptionV3 model as the encoder by transfer learning.Achieved a BLEU-1 score of 0.66 on the Flickr30k dataset.	December 2019 – February 2020 Pune, India

PROJECTS

3D Reconstruction from 2D Images <i>PyTorch, AngularJS, Node.js</i> <ul style="list-style-type: none">Developed a novel approach to generate 3D models from single or multiple 2D images on 13 object categories.Implemented a clear and responsive user interface and integrated it with the Deep Learning model.Performed unit testing and performance testing using Jasmine framework and Lighthouse respectively.Achieved state-of-the-art results on the ShapeNet dataset by using a CNN upscaler on RGB-D images.	August 2020 – May 2021
Hospital Bed Availability Portal for Covid-19 <i>Node.js, React.js, MySQL</i> <ul style="list-style-type: none">Developed a website that displays and dynamically updates the availability of beds in nearby hospitals.Implemented database schemas in MySQL and REST APIs to fetch relevant data.	June 2020

CERTIFICATES

Microsoft Learn AI Skills Challenge | Neural Networks and Deep Learning (DeepLearning.AI) |
Introduction to Data Science in Python (University of Michigan) | Build Basic Generative Adversarial
Networks (DeepLearning.AI)