# Chinmay Joshi

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📍 Saarbrücker Straße 261, Saarbrücken, 66125

EDUCATION

10/2022 – present Saarbrucken, Germany	**Master of Science (Computer Science)** *Saarland University* ↗ CGPA: 2.0 (German scale)
07/2018 – 06/2022 Mumbai, India	**Bachelor of Technology (Data Science)** *Narsee Monjee Institute of Management Studies* ↗ CGPA: 3.8/4 (German Scale: 1.2)

PROFESSIONAL EXPERIENCE

03/2025 – present Saarbrücken, Germany	**Research Assistant** *Fraunhofer IZFP* - Analyzing data and modeling algorithms for *Urbanist* - a Climate-Tech solution to sustainable and healthier means of mobility in the city.
09/2024 – 12/2024 Kaiserslautern, Germany	**Research Assistant** *Deutsches Forschungszentrum für Künstliche Intelligenz GmbH (DFKI)* - Assisted the Augmented Vision group in generating SMPL meshes from videos, and briefly explored Inverse Kinematics.
04/2024 – 08/2024 Tokyo, Japan	**Research Intern - 3D Computer Vision** *National Institute of Informatics (NII)* ↗ - Conducted research on relightable novel view synthesis from a single image using Stable Diffusion.
06/2023 – 03/2024 Saarbrucken, Germany	**Research Assistant** *Deutsches Forschungszentrum für Künstliche Intelligenz GmbH (DFKI)* - Developed and simulated a scheduler for exploring on-demand shuttle service as an alternative to public transport.
01/2022 – 04/2022 Mumbai, India	**Intern - Computer Vision / Video Analytics** *Aurify Systems Pvt. Ltd.* ↗ - Employed various object detection and pose-estimation models like YOLOv3, and Alphapose for their application in surveillance and warehouse management.
04/2021 – 07/2021 Mumbai, India	**Research Intern - Neuromarketing** *Narsee Monjee Institute of Management Studies* ↗ - Reviewed literature on Neuromarketing to identify appropriate signal processing tools, and machine learning methods for the classification of consumer decisions to given stimuli.

PUBLICATIONS

2021	**PCA-LSTM: Deep Learning Approach for the Indian Large-Caps** ↗ *IEEE Conference Publication	IEEE Xplore* - Developed a **trading algorithm** to generate binary trading signals for 50 large-cap stocks using LSTM and PCA, to complement portfolio optimization.

SKILLS

Programming — Python, C++, R, Scala

Machine learning, Deep learning and Computer Vision frameworks — PyTorch, TensorFlow, Keras, Hugging Face, and Computer Vision tools (OpenCV, Openpose, diffusers, etc.)

Other Skills — Blender, Statistical methods and modeling, Linux, LaTex, UX, Adobe Photoshop

PROJECTS

Memorization in Neural Networks on Dataset Pruning (Ongoing Master's Thesis)
at CISPA – Helmholtz Center for Information Security (with Dr. Rebekka Burkholz)

Hierarchical Modeling for Image Compression
- Proposed a hierarchical variant of an existing end-to-end Neural Compression method, that better optimizes the entropy of the quantized latent.

Chatbot for Sentiment Analysis ⧉
- Developed a chatbot using a customized logical adapter that prompts market sentiment of Indian stocks using Twitter data by employing subjectivity and polarity.

Bird Call Classifier (Audio Classifier) ⧉
- Devised a classifier to distinguish and identify various avian calls of different species using concepts of Signal Processing and deep learning.

LANGUAGES

German	English	Hindi	Marathi
A2	TOEFL (112/120)	Native	Native

VOLUNTEERING

06/2019 – 10/2021 Mumbai, India	**Volunteer for The Satsang Foundation** Tutored Tribal students of Aarey Colony in the subjects of Physics, Mathematics, and English, and also partook in the distribution of food to the tribal villages severely affected by the pandemic.
08/2018 – 08/2019 Mumbai, India	**Member of Students' Council** *Colloquium (Management Cell), NMIMS*

SCHOLARSHIPS

SaarlandStipendium für internationale Studierende an der UdS
Received scholarship support for the ongoing master's thesis

HOBBIES AND INTERESTS

Photography ⧉
Photographs posted @momentsbychinmay (instagram)
- Led the Photography team at the Social Conclave 2020 (Annual Social Conference held by NMIMS)
- Volunteered as a photographer at University events

Tennis