

Subrahmanya Rajesh Nayak

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CONTACT

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europass

WORK EXPERIENCE

8 JAN 2024 – 24 JUN 2024 surathkal, India

Research intern National Institute of Technology Karnataka

Conducted research on CAN intrusion detection methodologies, focusing on deep learning applications within cybersecurity. Collected and preprocessed CAN network data to develop clean datasets for model training. Developed deep learning LSTM model using TensorFlow for anomaly detection in automotive systems.

1 AUG 2022 – 15 SEP 2022 Manglore, India

intern Zephyr Technologies & Solutions

During my offline full-stack development internship, I gained hands-on experience in developing and maintaining web applications using HTML, CSS, Javascript, PHP, SQL. I also collaborated with senior developers to debug and optimize code and gained a deeper understanding of the software development lifecycle.

10 MAY 2022 – 29 JUN 2022 online, India

intern RineX

Completed online internship on Android App Development and front-end web development internship program using Java, HTML, Javascript, CSS. As a front-end web development intern, I created and maintained web pages using HTML, CSS, and JavaScript, while also improving website functionality and responsiveness to enhance user engagement and satisfaction.

9 FEB 2021 – 23 MAR 2021 online, India

Intern Knowledge Solutions of India(KSI)

During my online AI with Machine Learning internship, I worked on developing algorithms and implemented them using Python libraries such as sklearn, numpy, pandas, matplotlib. I gained hands-on experience in data preprocessing, model selection and evaluating model performance.

EDUCATION AND TRAINING

1 OCT 2024 – CURRENT Sonnenallee, Berlin, Germany

Masters-Comp science(Focus on Bigdata and Artificial Intelligence) SRH Berlin University of Applied Sciences

Website <https://www.srh-university.de/de/>

1 JUN 2020 – 24 AUG 2024 karkala, India

BE, Information Science Engineering N.M.A.M Institute of Technology, Nitte

Website <https://nmamit.nitte.edu.in/> | Final grade 8.37 CGPA

1 MAR 2019 – 14 MAR 2020 Karkala, India

XII Karkala Jnanasudha PU College

Website https://www.jnanasudha.org/karkala_jnanasudha_puc/index.php | Final grade 92.3%

1 MAY 2017 – 29 MAY 2018 Hebri, India

XJ Navodaya Vidyalaya chara hebri

Website <https://navodaya.gov.in/nvs/nvs-school/UDUPI/en/home/> | Final grade 80.4%

LANGUAGE SKILLS

MOTHER TONGUE(S): konkani

Other language(s):

English

Listening C1

Spoken production C1

Reading C1

Spoken interaction C1

Writing C1

German

Listening A1

Spoken production A1

Reading A1

Spoken interaction A1

Writing A1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user

DIGITAL SKILLS

java | python | c | php | SQL | JS | React Frame Work | MongoDBCompass | Maching Learning and Deep Learning
| unix shell | Web Apps | • Mobile Application Development | R Programmimg | Artificial Intelligence | Data
Collection, Data Cleaning, Data Analysis, Data Visualisations | Software Development

PROJECTS

8 JAN 2024 – 24 JUN 2024

CAN Intrusioin Detection

Designed and implemented a machine learning-based intrusion detection system for Controller Area Network (CAN) environments. Leveraged supervised learning algorithms to identify anomalous network behavior, ensuring enhanced vehicle cybersecurity. The project involved data preprocessing, feature selection, model training, and evaluation, achieving high accuracy in detecting potential threats.

1 AUG 2023 – 20 APR 2024

Live cataract detection using deep learning

Developed an automated cataract detection system utilizing the ODIR dataset and naked eye images. Leveraged deep learning techniques with TensorFlow and Keras to accurately detect cataracts in both fundus and naked eye images.

1 JAN 2023 – 1 MAY 2023

Computer vision and control

Developed a project involving object detection, tracking, and triggering actions when a designated object is moved. Utilized the cv2 library to capture video footage and implemented motion detection algorithms to identify and track movement within the frames.

24 NOV 2022 – 24 DEC 2022

Yoga App

Developed a user-friendly app in Java to support online yoga learners, featuring an audio/visual guide for performing various yoga exercises. Gained experience in designing the user interface using XML and Figma, creating and navigating between activities in Java, implementing an audio/video player, and integrating an online Firebase login system.