

Saaketh Koundinya

+91-8297249188 | three2saki@gmail.com | Hyderabad

<https://github.com/tommarvoloriddle> | <https://www.linkedin.com/in/saaketh-koundinya-24190073/>

RESEARCH/WORK EXPERIENCE

SAP LABS INDIA

Research Associate - Computer Vision

Jan 2021 - Present

- **Computer Vision in Data Intelligence team (SAP Global Research Fellowship)**

Jan 2021 - Sept 2021

- Implemented image classification on clothes (fashion wear), to accurately identify image attributes like style, print using CNN's. **Accuracy - 78 %.**
- Working on Mask RCNN on medical images to add time-series dimensionality and predict numerical attributes over time. **Accuracy - 90%.**
- Technologies used: - Python, Tensorflow, Keras, Image Classification, Deep Learning, Machine Learning, Numpy, Pandas.

- **Computer Vision in SAP Technxt - 2021.**

Sept 2021 - Present

- Working on a novel way to store images across data warehouses.
- Submitted a paper "Coarse to Fine Bilinear Convolutional Networks" to CVPR 2022.
- Technologies used: - Python, Tensorflow, Keras, Image Classification, Deep Learning, Machine Learning, Numpy, Pandas.

SAP LABS INDIA

Software Developer

July 2019 - Dec 2020

- **Full-stack S/4 Hana developer.**

- Built full-stack **web apps** with ABAP as backend and UI5 (JS framework) as front end according to functional needs of customers across SAP products.
- Built a fully functional **reusable library** with UI components, which was used across 6 web apps internally.
- Built a real-time **tracking application** for tracking the status of various business documents such as purchase orders/ sales orders on top of legacy SAP products.
- Skills: - JavaScript, ABAP, HANA, CDS, UI5, BOPF.

INTERNSHIP EXPERIENCE

WIPRO TECHNOLOGIES

Research Intern in NLP

May 2018 – July 2018

- **NLP team.**

- Worked on **classification, clustering, summarizing** of tickets, and extracting topic names.
- Used K-Means, NB classifier, NN, RNN with LSTM, NLTK, NLP.

EDUCATION

NIT, Warangal

Aug 2015 - May 2019

Bachelor of Technology – (2015-2019) | CGPA – 8.38 | Major – Civil Engineering

Relevant courses – computer programming, Programming Lab, Linear Algebra(M1), Advanced Calculus(M2), Statistics and Probability(M3).

Relevant MOOCs – [Data structures and Algorithms](#), [Discrete Mathematics](#), [Object-oriented programming](#), [Fundamentals of Computer Networks](#), [Database management](#), [Machine Learning](#), [Convolutional Neural Networks](#)

TECHNICAL SKILLS

- **Programming Languages:** Python, C/C++, JAVA, ABAP, JavaScript
- **Tools/Frameworks:** SAP UI5, SAP HANA DB, Tensorflow, Python, Keras, ReactJS, React-Native, SAP CAI
- **Machine Learning:** Computer Vision, Convolutional Neural networks, Neural networks, RCNN, Object Detection, NLP using NLTK, Tensor-flow, Classification, Clustering.

CONFERENCES/PUBLICATIONS

"Coarse to Fine Bilinear Convolutional Networks for Fine-grained Image Classification"

CVPR 2022 - (Submitted)

- A novel way for fine-grained object recognition among hierarchical datasets.
- Obtained better results than current state-of-art on hierarchical grocery dataset
- Submitted to CVPR 2022 after 2 rounds of internal reviews at SAP.

Author&Reviewer for Analytics Vidya – (Online Publication)

May 2021 - Present

- Author of "Fine-grained Image Classification using Bilinear Convolutional Neural Networks".
- 200+ monthly viewership and 100+ monthly GitHub repository clones.

“Leakage Detection in Water Distribution Systems using Neural Networks”

Technozion 2018 – (Local)

- Used data from the local municipality to train a neural network for predicting leakages in the distribution systems.
- Applied this model to our college water distribution system,

Speaker at DKOM – (Annual Developers Conference)

Feb 2021

- Selected as **1 among 160** demo pod presenters, across all SAP entities.
- Showcased a way to interact with HANA data using voice by integrating it with Conversational AI, built on top of UI5.

PROJECTS

- **Intelligent Renewal Management:**
 - Predicts customer renewal rate, health score, churn rate.
 - Pitched the idea in Intelligent Enterprise Summit
 - Skills:- ReactJS, Machine Learning.
- **Paperless Billing:**
 - Android/ IOS app to place orders for food at company café. Estimated to save **100000 Kg of CO2 emissions per year at SAP In.**
- **React Native Forms**
 - NPM **open source Library** which converts JSON to form,**1500+ downloads.**
- **Leakage Detection in pipes using Machine learning**
 - Used **Neural Networks** and **EPANET** for modeling and prediction of leakages in water distribution systems - **MATLAB/Python.**
- **Earthquake Damage Predictor**
 - As part of Microsoft, code-fun-do. Used **NN** for **damage prediction.**

VOLUNTEER EXPERIENCE

LETSENDORSE (NGO)

App developer - (05/2017 – 07/2017)

- **Hybrid App developer.**
 - Played a crucial role in bringing out the first cut app version. Worked on UI for products like SAHAJ.
 - React-Native-Forms: **NPM open source Library** which converts JSON to form,1500+ downloads
 - Technologies – ReactJS, React-Native, JSON, JavaScript

TECHNOZION – (Non Profit)

App developer - (05/2017 – 07/2017)

- **Hybrid App developer.**
 - Responsible for developing and deploying apps and managing teams.
 - **Deployed 2 android apps** on the play store with over 1000 downloads each.
 - Increased registrations, in turn, increased revenue by **INR 50000.**
 - Skills:- Android, Material UI, Team-Management.

AWARDS/HONORS

- Emerging talent award, **one among 3** recipients, across 500+ SAP India early talents for fostering innovation.
- **World rank 3** in SAP CTF 2020 – (Capture the Flag) security hacking event helps across all SAP entities in the world over 2 months.
- **World rank 17** in SAP CTF 2019 – (Capture the Flag) security hacking event helps across all SAP entities in the world over 2 months.
- **7 distinguished rewards** and recognition for contributions to different projects over time.
- Received distinguished accolade from **SAP CSO** (Chief Security Officer) for CTF.
- Speaker at Intelligent Enterprise Summit on **Intelligent Renewal Management.**
- Ranked **1500** in InterviewBit – 2018.
- Ranked **195** Globally in Codechef’s short contest 2017.
- Ranked **2nd** in ACMICPC qualifiers at NIT-W.

HOBBIES/INTERESTS

- Competitive Programming
- Esports – Dota2, AOE2,
- Zonal Cricket Player
- AI, Blogs