

ANURAG SHUKLA

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EDUCATION

International Institute of Information Technology, Naya Raipur

2017 to 2021

Bachelor of Technology, Computer Science and Engineering

SGPA: 9.47

St.Marks Public School

2015 to 2017

Class XII CBSE, Science

89.4 percentile

St.Francis Convent School

2015

Class X, CBSE

9.8 CGPA

EXPERIENCE

Microsoft

Bangalore

Research Intern

May 2020 to August 2020

- In charge of design and development of Interactive Neural Machine Translation-lite (INMT-lite), a framework to train and develop lite versions of models using tflite for neural machine translation (NMT) that can be run on embedded devices like mobile phones and tablets that have low computation power and space.
- Developed Translation engine APIs for INMT web and created an android client application.
- Worked with IDC Bangalore team to develop CovidSafeRoutes, an android application that find alternative paths between two points on map and suggests the safest route from covid-19 contamination.

CGNet Swara

Raipur

Software Development Engineer Intern

December 2019 to April 2020

- Integrated data collection interface for collecting Hindi-Gondi translation data in Adivasi Radio, an android application for data collection and information retrieval for Gondi Community.
- Developed several email and API based tracking mechanisms for supervision of data collection activity and maintenance.
- Upgraded the data collection interface to work in offline mode because of poor internet connectivity of users.
- Managed flexible admin interface and API, server backend, offline access, database and caching, deployment, testing, marketing and maintenance of several web and android applications.

The Society of Coders(TSoC), IIIT Naya Raipur

Naya Raipur

Co-Founder and Vice Secretary

2018 to Present

Co-founded the first coder's club at IIIT-NR, organized various hackathons and events to promote competitive programming among the students, and improve the coding environment of the Institute.

Codechef

Naya Raipur

Campus Chapter Head

2018 to Present

Head and representative of IIIT-NR Codechef Campus Chapter. Responsibility includes organisation, successful conduct and problem curation for all coding competitions in college.

PROJECTS

Adivasi Radio

- A full fledged and the **only application** offering an informational database of news articles, videos, audios, podcasts, children stories and more related to the Gond community and their people. Integrated with the TTS system, the app can read all the information it has to offer to eliminate barriers for illiterate people.
- Adivasi Radio is also used to collect Hindi-Gondi translation data and has now collected over **25000+** sentence pairs with **50+** users and is now used for creating the **first ever machine translation engine** for standardized Gondi.
- Adivasi Radio provides platform for managing, analyzing, tracking and manipulating the data.
- **Tech Stack:** Django, Android, SQLite, Bootstrap, CSS, HTML -[GitHub Link](#)

DeepInsight

- DeepInsight is an end-to-end machine reading and question answering web and app based application that uses convolutional blocks instead of recurrent units and multihead attention to answer queries on any given context.
- DeepInsight also supports query on video contexts using video captioning models (*beta*).
- **Tech Stack:** TensorFlow, Android, Django, CSS, HTML -[GitHub Link](#)

Indhan - A Fuel Monitoring Application

- Complete solution for a vehicle's fuel management issues that monitors the fuel levels of vehicle via a sensor, the data of which is sent to an android application via Raspberry-pi.
- The application features includes low fuel warning, navigation to nearest fuel stations, user personalized fuel station searching, a rating system tailored according to user's needs and fraud detection.
- **Tech Stack:** Android, Django, JavaScript, IoT -[GitHub Link](#)

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, C, JavaScript, SQLite
- **Framework & Libraries:** Android, Django, TensorFlow, TensorFlow Lite, Keras, Numpy, Pandas
- **Softwares & Tools:** Git, GitHub, AWS, Latex

AWARDS AND ACHIEVEMENTS

- Qualified for ACM-ICPC 2020 in Kanpur(**rank 63**) and Gwalior regions.
- Qualified ACM-ICPC 2019 in Kharagpur(**rank 81**) and Amritapuri(**rank 37**) regions.
- Ranked 1st with a prize of **INR 3 Lakhs** in Genpact's "Dare in Reality" Challenge (Hackathon) among a pool of **25000+ participants**.
- Ranked **3rd** in Codeutsava 2020, NIT Raipur's Annual Hackathon.
- Ranked **1127th** globally and **115th** in India in **Google HashCode**, out of **10724 teams**.
- Ranked **1st** from college in Discovery Challenge, organised by Scaler Academy.
- **4 times** college scholarship recipient for academic excellence.

PUBLICATIONS

- "Facilitating Media Distribution with Monetary Incentives." Extended Abstracts of the 2020 **CHI Conference on Human Factors in Computing Systems** 2020, Hawaii, USA.
- "Learnings from Technological Interventions in a Low Resource Language: A Case-Study on Gondi." Proceedings of The **12th Language Resources and Evaluation Conference**. 2020, Marseille, France.
- "Smart Fruit Warehouse and Control System Using IoT." **2019 International Conference on Data Science and Engineering (ICDSE)**. IEEE, 2019, Patna, India.

CERTIFICATIONS

- *Sequence Models*, Coursera. [Link](#)
- *Natural Language Processing in TensorFlow*, Coursera. [Link](#)
- *Data Structures and Algorithms*, GeeksforGeeks. [Link](#)
- *The Complete Android Oreo Developer Course*, Udemy. [Link](#)
- *Python OOPS: Object Oriented Programming for Python*, Udemy. [Link](#)