

# Ram prasad Naik

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**in**ramprasadnaik **OR** Ramprasade10  
"Coffee into Code || Passion into Impact"

## EDUCATION

### THE NATIONAL INSTITUTE OF ENGINEERING | B.E. IN COMPUTER SCIENCE | THIRD YEAR

July 2016 – July 2020 | Mysuru, India • Cum. GPA: 8.6

## PROJECTS

### BLOCKSQL | DBMS PROJECT

Sep 2018 – Present | NIE | [\[Project Link\]](#) | [\[Report Link\]](#)

- Collaborated with the college's Controller Of Examination Office to facilitate the Students, Teachers and DB Admins in shortcomings like automating provisional marks card, transcript generation, previous results from **meta data provided**.
- **Deployment** : Processing time of **transcript generation from 15 days to a day**. Principles of **blockchain** ensure DB integrity.
- **Data Analysis and visualization**: Generate useful **graphs and metrics** about student performance using **matplotlib**.
- Technologies : **Python(Flask,pdfkit,PyPDF2,passlib,pathlib,smtplib),SQLite3,pandas,tabula(Data Wrangling)**.

### BLOCKHACK | TECHNIEKS HACKATHON | [\[LIVE DEMO\]](#)

Feb 2018 – Present | [\[Project Link\]](#)

- **Blockchain Ledger** implementation using python to **prevent hackers** rigging the electronic system to **manipulate vote(Block)**.
- Citizens can securely vote from home with biometrics. Technologies : **Python,flask,HTML5,CSS,JSON**.

### ONLINE C COMPILER | NIE SUMMER OF CODE | [\[LIVE DEMO\]](#)

June 2017 - Present | [\[Project Link\]](#)

- Simple and functional UI for Compiling and Executing C Code Online without compiler in local system.
- Technologies Used: **Python, flask, HTML5, CSS, AWS**.

## EXPERIENCE

### RESEARCH INTERN | DATA SCIENCE GROUP | NATIONAL INSTITUTE OF SCIENCE AND TECHNOLOGY, ODISHA

June 2019 – Present | [Website](#)

- Working under Dr. Hemant Kumar Reddy - Associate Professor, School of Computer Science, NIST, continued efforts to implement an **efficient algorithm for topology discovery** mechanism in SDN controllers using Mininet emulator.
- **Researching application of Machine Learning** in improving and implementing new SDN services.
- **Research Area**: Software Defined Networks (SDN) POX Controller, Topology Discovery and Fog Computing.

### INTERN | WEIR MINERALS | WINNER, TECH MERAKI

Apr 2019 – June 2019 | Bengaluru

- Designed a **real-time system for fault detection** and isolation of packages in a **Supply Chain Management(SCM)** saving human resource and cost. SCM dashboard for production and packaging dept. for taking quick business decisions.
- Implemented **Transfer Learning** on **Google's Inception** by building a **Deep Learning** multi-label classifier model **trained on AWS Sagemaker** using wrangled dataset and live batch images of tins and cartons with a **test accuracy of 97%**
- The model's **data preprocessing, cleaning, augmentation** is the culmination of implementation from various **research works**.
- Technologies: **Cloud**: AWS DeepLearning Sagemaker, Lambda, S3, Google Cloud Vision API, boto3. **Socket Programming**. **Data Science Libraries**: tensorflow, keras, matplotlib, numpy, pandas. **Modules**: sqlite3, hashlib, passlib. **Embedded Systems**: Raspberry Pi3 and PiCamera. **Server**: Flask.

### VOLUNTEER | ANDROID FOCUS GROUP LEAD | NIE IEEE STUDENT BRANCH

July 2016 – Present | [nisb.in/](http://nisb.in/)

- Organized **Competitive Coding competitions** like Oculus, Woman In Engineering and IEEE Premier League.
- Co developed, **IEEE Student Branch Android App**. Features include : Events **Notification**, **Blog**, **Membership details** and **Event Attendance**. Helped increase participation and membership drive. [github.com/nisbweb/app](https://github.com/nisbweb/app)
- **Web Dev Team, IEEE Bangalore Section**. Responsible for Maintainance and updation of the website. [ieeebangalore.org/](http://ieeebangalore.org/)
- Played an active role in organizing and hosting technical fests like **Adroit'16, Exebit'17, Ankura'17**.

## EVENTS LEAD EXECOM | IEEE COMPUTER SOCIETY

Nov 2017 - Aug 2018 | NIE IEEE SB

- Master Of Ceremony and **Convener**, All Karnataka Computer Society Congress 2018, NIE Mysuru.
- **Mentored And Organized Weekly Meetups** : Pilot programme where avid beginner programmers are given hands on with technologies : **Python, Git, HTML, FOSS, Linux**. [github.com/Ramprasade10/Git-Guide](https://github.com/Ramprasade10/Git-Guide)
- **Project Drive Lead** : Pilot programme where my team **built a Linux OS** customized for programmers based on **Arch Linux**.
- **Code Golf** : Organized first of its kind, a competition where participants solve the problem statements with least number of lines of code while having a lower time complexity during runtime. **hackerrank.com's custom checker** code was used.

## WEBSITE CONVENER | TECHNIEKS COLLEGE FEST

Jan 2019 - Mar 2019 | [technieks.in/](https://technieks.in/) | [Project Link]

- Was responsible for creating and **assigning issues** to contributors and **reviewed pull requests**. Volunteers gained experience on Web Development, exposure on Version Control System and cross-collaboration.
- My team worked on improvements like push **browser notification of events, pagination of the gallery and exceptions**.
- Added **live streaming service** of fest onto the website leading to increased engagement.

## SKILLS

### Strongest Areas

Databases • Data Analysis/Visualization/Wrangling • Statistics

Programming

Python • JAVA • C • C++ • Android • R

CLOUD

EC2 • Sagemaker • Lambda • S3 • Google Cloud Vision API

Tools And Frameworks

Numpy • Pandas • Matplotlib • Seaborn • TensorFlow • Scikit-learn • Flask •

MySQL • SQLite • MongoDB • Git • Shell •  $\text{\LaTeX}$

### CERTIFICATIONS

JAVA PROGRAMMING

Oracle, 2014 [Certificate]

ANDROID DEVELOPMENT

Greenfield Training Academy, 2015

[Certificate]

ARDUINO BASED ROBOTICS

Logichive Solutions, 2016 [Certificate]

## AWARDS

### BRAIN TECH CHAMPIONSHIP 2018 | ZONAL WINNER

Feb 2018 | Azure Skynet Solutions | **Certificate**

Actively participated and declared Zonal Winner in 2 Day workshop on Data Science and Machine Learning with Python.

### TECHNIEKS HACKATHON NIE IEEE | RUNNER-UP

Feb 2018 | NIE IEEE SB | **Certificate**

Runner up among 30 teams for designing a Proof Of Concept to prevent election vote rigging using Blockchain.

### NIE SUMMER OF CODE | WINNER

Jun 2017 | NIE IEEE SB | **Certificate**

### ELECTRONICA 5.0 | WINNER

2017 | NIE IEEE SB | **Certificate**

## PRESENTATION

### BASIC PROGRAMMING SESSION ON C/C++ | IEEE COMPUTER SOCIETY

Sept 2016

**Mentor and Organizer** : First year students of all dept were taught **C and C++** to inspire them to **pursue Computer Science**.

### VERSION CONTROL SYSTEM | NIE SUMMER OF CODE

Jun 2018 | [VIEWABLE PRESENTATION]

Participants were made to realize **why VCS** was important for **code collaboration and source control**, they eventually committed code on github. **Topics** : Why VCS, CVS VS DVS, Hands on commands with git/github and Branching.

### BLOCKCHAIN AND CRYPTOCURRENCY | NIE SUMMER OF CODE

Jun 2018 | [VIEWABLE PRESENTATION]

- **BlockChain**: Tech Underlying, Transaction, Fraud Prevention, Tokens, Smart Contracts, Hyper ledger, Ethereum Alliance.
- **Cryptocurrency**: Why Cryptocurrency, Mining, Making Own Cryptocurrency, Trading, Issues, Safety, future.

## RELEVANT COURSEWORK

**PROGRAMMING AND TOOLS** : Data Structures with C, Object Oriented Programming with C++, Python Programming, Web Technologies and Applications(Java).

**CORE COMPUTER SCIENCE** : Computer Organization and Architecture, Operating Systems, Unix Shell Programming, System Software, Database Management Systems, Data Communications and Networking,