Ram Prasad Naik

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in ramprasadnaik Ramprasade10

"Coffee into Code || Passion into Impact"

EDUCATION

THE NATIONAL INSTITUTE OF ENGINEERING | B.E. In Computer Science | Senior Year
July 2016 – July 2020 | Mysuru, India · CGPA: 8.66

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.**

A RELIABLE SOCIALLY RESPONSIBLE DISASTER MANAGEMENT SOLUTION | HACK ELITE, Winner
10 Nov 2019 | [Project Link] | [Presentation]
- **Blockchain:Ensures disaster prone, transparent to public,** self-sustaining, secure technology using python POC Blockchain.
- **Machine Learning: Linear Regression** on historic disasters dataset to predict death toll, funds and donor profile matching.
- **NLP (Spacy): Named Entity Recognition** using **nltk and spacy to extract disaster attribute**s from social media tweets.
- **Data Visualization:**seaborn and matplotlib **charts** representing the **mined patterns and predictions** from ML Algorithms.
- Libraries Used: **Python, Flask, tensorflow, sklearn, nltk, spacy, pandas, matplotlib**

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/
- 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
- **Web Dev Team, IEEE Bangalore Section.**Responsible for Maintainance and updation of the website. 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
- **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/ | [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 • 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,