

Rahul Goswami

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EDUCATION

NIT UTTARAKHAND

B. TECH. IN COMPUTER SCIENCE

Expected Apr 2020

Cum. GPA: 8.97 / 10.0

Major GPA: 9.15 / 10.0

LAKES INTERNATIONAL

SEN. SECONDARY

Apr 2016 | Bhimtal, India

Percentage: 91.16 %

SKILLS

LANGUAGES

Over 20,000 lines: Python

Over 50,000 lines: C++

Familiar: Java, MATLAB

TOOLS AND SOFTWARES

• C++ STL libraries • NumPy

• Keras • SKLearn

• Pandas • OpenCV

• Git VCS • PyCharm

• VSCode • Geany

OPERATING SYSTEMS

• Linux • Windows • MacOS

LINKS

Codeforces:// [Rahul](#)

Github:// [goswami-rahul](#)

LinkedIn:// [rahul101](#)

Kaggle:// [rahul110](#)

Codechef:// [rahul_g](#)

KEY COURSES

COMPUTER SCIENCE

Data Structures and Program Design

Analysis of Algorithms

Object-Oriented Methodology

Artificial Intelligence

Theory of Computation

Computer Graphics

MATHEMATICS

Probability and Numerical Methods

Linear Algebra

Discrete Mathematics

Topics in Graph Theory

EXPERIENCE

IIT ROPAR | RESEARCH INTERN • DEEP LEARNING

May 2018 – July 2018 | Ropar, India

- Implemented deep learning algorithms on human burn images to identify and classify the burn areas.
- Published a paper with PhD candidate Ms. Joohi Chauhan and Dr. Puneet Goyal, at SaMBa: SIPAIM – MICCAI Biomedical Workshop, Granada, Spain.

PROJECTS

ALGORITHMS | PYTHON • OPEN-SOURCE

- Maintain one of the largest collection of algorithms in Python (14,500+ stars on GitHub).
- Wrote 7,500+ lines of code until present.

BURNS DIAGNOSIS | DEEP LEARNING

- The model identifies and classifies a burned body part image using deep learning techniques.
- The project was completed as a part of research internship at IIT Ropar.

ALIEN INVASION | PYTHON • SHOOTER GAME

- An interactive shooter game similar to Galaga, using PyGame.
- Object-oriented design and easily customizable.

POTHOLE DETECTION | DEEP LEARNING

- Uses smartphone to collect video clips of roads, along with location.
- Deep Learning model detects the potholes with their sizes and count.
- Updates the map service with this data and shows visualizations

TLE | PROGRAMMING DISCORD BOT • CONTRIBUTIONS

- Maintains users' competitive programming data from CodeForces API.
- Recommends problems and contests based on user's rating.
- Plots graphs for various statistics of users.

ACHIEVEMENTS

Mar 2019 1st place in The United States - Google HashCode Quals. 2019

June 2019 Qualified upto Round 3 - Google Code Jam 2019

Mar 2019 Finalist at National coding Hackathon by Johnson and Johnson

Apr 2019 Finalist at National Road Safety team Hackathon by Bosch and IRSC

Present Top-100 in India at CodeForces

Dec 2018 ACM-ICPC – 21st in the online round; 33rd at the onsite round

Jan 2018 Winner of CodeWar at TechMeet' 18, NIT Uttarakhand