Pawan Nirpal
Computer Engineering Student

A Passionate Engineer committed to excellence in engineering and looking forward to drive innovation with a collaborative team effort and in turn bring value to the organization.

✉ pawannirpal@gmail.com

📍 Aurangabad, Maharashtra., India

⌨ github.com/pawan-nirpal-031

📱 +919359204791

🔗 linkedin.com/in/pawan-nirpal-0a5277167

📝 stackoverflow.com/users/11779635/pawan-nirpal

EDUCATION

B.E. Computer Engineering
Pimpri Chinchwad College of Engineering, Pune

07/2018 - Present   *9.02 CGPA*

HSC
Shivchhatrapati College, Aurangabad

02/2017 - 03/2018   *72.00%*

SSC
St Mary's School, Ahmednagar

03/2014 - 03/2015   *91.60%*

PERSONAL PROJECTS

Perception system for Driver assistance systems (10/2020 - Present)
- The target domain of this project is intelligent transport and mobility, As the name suggests the project aims to achieve visual perception for driver assistance, the main goal of this system is to be able to perceive the environment around the vehicle using computational tasks such as object detection, tracking and segmentation for drivable space estimation and perform collision warning accordingly.

Crop yield classification (10/2020 - 04/2021)
- This project aims to do yield classification as high, mid and low yield based on 4 features such as crop id, year, area of plantation and production yield, It uses machine learning algorithms like k-nearest neighbours, Gaussian Naive Bayes, Support vector machines and Linear discriminants analysis to perform classification task, It also uses cross validation and performance metrics like recall.

An Arithmetic expression Compiler in C (03/2022 - Present)
- An Arithmetic expression Compiler written in C language, the compiler has custom lexer which works in consumer-producer model with parser phase to generate an Abstract Syntax Tree which is later used for code generation, the target architecture of code generator is x86 assembly.

Ristorante con Fusion (05/2020 - 07/2020)
- A table reservation and fast food restaurant site that allows customers to be able to book a table, provide feedback on dinning, view restaurant meal course and it's history along with founding members (fictional), the site uses npm nodejs server along with CSS bootstrap being heavily used along side HTML.

A Graph Visualization API using C++ Graphics.h (03/2021 - Present)
- This is a pet project that does visualization of graph traversal algorithms of depth first and breath first algorithms along with single source shortest path algorithm. It uses C++ and native Graphics.h library.

SKILLS

Systems programming   C/C++   Java   Python
SQL   Database design   Compiler design
Data structures and Algorithms   Machine learning
Tensorflow

ACHIEVEMENTS

6* Programmer on Hackerrank (10/2020 - Present)

Google Hash Code 2021 Global Rank 2355 (05/2021 - Present)

CERTIFICATES

Algorithms and data structures by UC San Deigo and HSE Moscow (04/2020 - 06/2021)
Accomplishments-AlongThe-Way/UC San deigo at master · pawan-nirpal-031/Accomplishments-AlongThe-Way (github.com)

Deep Learning and Introductory NLP by Deep Learning.AI (05/2020 - 12/2020)
Accomplishments-AlongThe-Way/Deep Learning at master · pawan-nirpal-031/Accomplishments-AlongThe-Way (github.com)

Google Explore ML (06/2019 - 08/2019)
Accomplishments-AlongThe-Way/Google Explore Ml at master · pawan-nirpal-031/Accomplishments-AlongThe-Way (github.com)

Computational Thinking and Programming with Python by Microsoft (02/2019 - 04/2019)
Accomplishments-AlongThe-Way/Microsoft Certifications at master · pawan-nirpal-031/Accomplishments-AlongThe-Way (github.com)

Foundational Finance for Strategic Decision Making (05/2020 - 08/2020)
Accomplishments-AlongThe-Way/FinanacUnivOfMichigan at master · pawan-nirpal-031/Accomplishments-AlongThe-Way (github.com)

LANGUAGES

English
Full Professional Proficiency

Hindi
Full Professional Proficiency

INTERESTS

Reading   Listening Music   Astronomy