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# Yatharath Bhateja

Scientist / Software Engineer

**Determined and talented individual with more than 4 years of experience working as Scientist within Space and Research Industry. Analytical problem-solver with sound judgment and reasoning abilities and skilled in Algorithm Design, Analysis and Development. Passionate about increasing knowledge to drive growth and needed improvements.**

## PROFESSIONAL EXPERIENCE

### Scientist / Software Engineer

Jul '17 - Present

#### Space Applications Centre, Indian Space Research Organization (ISRO)

Ahmedabad, Gujarat

- Involved in exploring, discovering and enhancing **Computer Vision** and **Machine Learning** techniques in the domain of **Image Processing** to help process and study **Remote Sensing** data more efficiently and accurately.
- Responsible for end-to-end **Data Processing Software** design and development for Indian Nano Satellites.
- Undertook multiple **Research projects** and implemented advanced technologies to improve quality and robustness of data processing pipeline.
- Engineered a solution for providing pre-packaged and pre-processed **analysis ready data** to user community.

### Graduate Executive Trainee

Dec '16 - Apr '17

#### Neyveli Lignite Corporation

Neyveli, Tamil Nadu

- Redeveloped existing systems to support and cater to newer requirements for 4 business critical software.
- Wrote **highly maintainable** and **well documented** code for configuration management software.
- Collaborated with stakeholders during development processes to **document and design** road-map for software development.

### Business Technology Analyst

Aug '16 - Dec '16

#### ZS Associates

Gurugram, Haryana

- Involved in providing **sales and marketing technology consulting** to one of the top fortune 500 pharmaceutical companies in the USA.
- Worked with designers and engineers to **develop** an **interactive MicroStrategy dashboard** for visualizing relevant business insights for sales reps, managers, operations team and admin team.

## EDUCATION

### Bachelor of Technology in Computer Science

Aug '12 - Jun '16

#### Guru Gobind Singh Indraprastha University

Delhi

## SKILLS

C/C++ : expert

HTML5 : advanced

JavaScript : intermediate

Engineering Software Expertise : advanced

Python : advanced

CSS : intermediate

Angular : intermediate

Machine Learning : basic

## LANGUAGES

- English
- Hindi

## ACCOMPLISHMENTS

- Implemented and operationalized a multi-layered deep network model based framework to generate highly accurate surface reflectance product with a speedup of 5x over the previous implementation.
- Implemented a DNN to generate a predefined High Resolution (HR) synthetic spectral band using an ensemble of concurrent Low Resolution (LR) bands and existing HR bands. The results were highly appreciated and the model was operationalized for real-time applications.
- Published multiple papers in various national/international conferences and journals.