

# AMEY GUPTA

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## Education

**Birla Institute of Technology and Science, Pilani Campus**

*Bachelor of Engineering (Honours.) in Electronics and Instrumentation*

**2019 – 2023 (Expected)**

*Pilani, Rajasthan*

**Springdales Public School, Pusa**

*Class XII - Computer Science*

**2019**

*New Delhi, Delhi*

## Experience

**Microsoft India**

*Software Engineer Intern*

**May 2022 – July 2022**

*Hyderabad, Telengana*

- Worked as a part of the Bing Travel Destinations Team to collect high quality data on travel destinations to be displayed on the Bing Travel Hub to improve User Experience and Utility.
- Built HitApps for the UHRS Crowd-Sourcing Platform to collect data about *Destination Type*, *Best Time to Visit* and *Ideal Stay Duration* for about 50K destinations and parsed the obtained results into production ready data filtering out spam and low quality responses
- Achieved a coverage of 98.76% with a precision of 100% for top destinations and 90% for tailing destinations

**CSIR-CEERI**

*Research Intern*

**May 2021 – July 2021**

*Chennai, Tamil Nadu*

- Worked in a research group of three that researched on and developed various texture classifiers using Gabor Filters and Wavelet Transforms for Feature Extraction in Image Classification
- Used feature vectors extracted using Gabor Filters and Wavelet Transforms with classical machine learning models like Logistic Regression, Naive Bayes, KNN, Random Forests, SVM and also with fine tuned CNNs like Resnet, AlexNet and T-CNN. Matched the SOA for most datasets and even exceeded it for many
- Presented our research paper titled "*Comparative Review of Machine Learning and Deep Learning Techniques for Texture Classification*" at *International Conference on Artificial Intelligence Techniques for Electrical Engineering Systems, AITEES 2022*. Accepted for publication in "*Atlantis Highlights in Intelligent Systems (Volume 3)*" by Springer Publications

## Projects

**Microsoft Teams Clone | EngageMeet**

**July 2021**

- A fully functional multi user video calling application with room based video calling, screensharing, whiteboard and chatting
- Used WebRTC and socket.io libraries to implement the peer to peer connections to create and catch events
- **Tools/Technologies** : Node JS, WebRTC, Socket IO, UUID, Express, HTML, CSS

**Task Manager REST API | Tasker API**

**June 2020**

- Built a REST API for a Task Manager Application with all CRUD operations supported using Node JS, Express JS and various other Javascript Libraries along with MongoDB as the database
- A fully functional API with various routes for adding, deleting, updating and listing tasks and also routes for the user to update his/her information and to change their credentials and implemented their programs
- **Tools/Technologies** : Node JS, MongoDB, Postman, Express, JSON Web Token Authorization, bcrypt.js, multer.js

**Real Time Weather Application | Weatherly**

**May 2020**

- Made a web application for real time temperature reports by searching for a location
- Used an API (WeatherStack) for weather data and Express JS for displaying various pages
- **Tools/Technologies** : Node JS, Express, HTML/CSS, Handlebars

## Relevant Coursework

Computer Programming, Data Structures and Algorithms, Object Oriented Programming, Operating Systems, Internet of Things\*, Neural Networks and Fuzzy Logic\*, Digital Electronics, Microprocessors and Interfacing

## Technical Skills

**Languages:** C++, C, JavaScript, Python, Java, HTML/CSS, L<sup>A</sup>T<sub>E</sub>X

**Developer Tools:** Git, Unix, Postman, vim

**Technologies/Frameworks:** Node JS, Express, MongoDB, pandas, numpy