Pranav Bhosale

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Education

Birla Institute of Technology and Science (BITS Pilani) 2017 – 2021
Bachelor of Engineering, Computer Science Engineering *CGPA:* **8.03/10**

Experience

Software Engineer - 2 | DigiCert **January 2024–Present**
Leading global provider of Digital Trust and Public Key Infrastructure
- Building **Trust Lifecycle Manager**, a full-stack solution for centralized digital trust needs of enterprises.
- Solving for **Post Quantum Cryptography** certificate issuance

Software Engineer | Verizon **Jul 2021–Dec 2024**
BlueJeans by Verizon: Enterprise grade virtual events and webinar platform
- Developed and maintained Spring based **microservices** for **BlueJeansEvents** that supported upto **500k attendees** in web conferences with significant primary ownership of around 10 microservices
- Integrated an RTMP video streaming solution utilizing **Amazon IVS** enabling delivery of low-latency content. Requested by over **30 enterprise** customers
- Pioneered a GDPR-compliant **user data deletion** feature, leveraging **AWS Step Functions** to systematically purge user data, facilitating the daily deletion of thousands of users in alignment with European regulations
- Implemented real-time alerting for various scheduled tasks, encompassing billing alerts, event registrations and reminders, and multiple health checks integrating with Slack and Sumo Logic, drastically reducing **detection time** from several **hours to seconds**
- **Interned** for five months from Aug-Dec 2020, concluding with a return offer

Full Stack Developer | Superset **Feb–Jun 2021**
Recruitment infrastructure to manage campus hiring
- Worked with a small team contributing to web apps utilized by **600+ universities** and **3500+ companies**
- Developed a **data collection portal** for Capgemini with AngularJS frontend and Java-Spring backend, instrumental in collecting placement data for colleges and hiring over **15,000 freshers**
- Automated high-load technical support through Zoho Workflows, nearly **eliminating manual email responses** that previously took over 2 days. Also established a subscriptions marketplace for university clients

Research Intern | Leap Club | Organic Food and Groceries Marketplace **Jun–Aug 2020**
- Conducted research on cost-effective, portable, and swift food authentication, identifying NIR spectroscopy as the optimal technique and exploring ML models for the classification of organic food

GIS Intern | SAAR GeoSpatial | GIS Services Provider **Jun–Aug 2019**
- Engaged closely in the creation and management of geographic data for a tree census conducted by the Mumbai Municipal Corporation (MCGM). Developed expertise in ArcGIS, handling vector and raster data, geodatabases, ArcToolbox, and environmental analysis, along with the publication of web maps

Technical Skills

Languages: Java, C++, Go, C, Python, JavaScript
Technologies/Frameworks: Spring, AngularJS, Docker, Kubernetes, Tensorflow
Others: AWS, Git, MySQL, DynamoDB, Agile

Selected Projects

Invasive Species Monitoring | *Convolutional Neural Networks, Tensorflow, Keras, numpy, pandas* View Project
- Explored the biological consequences of globalization and the challenges posed by invasive species for a term paper. Applied a CNN model to a **Kaggle Dataset**, achieving a 75% accuracy in identifying hydrangeas.

NIR Spectroscopy based Apple Classification | *Machine Learning, sklearn* View Project
- Successfully reproduced the findings of a paper predicting apple origin through spectral data from NIR spectroscopy. Reduced dimensionality via Principal Component Analysis, and trained a Support Vector Machine model achieving 100% accuracy in binary classification of apples.