

ANUSHA SINGH

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SUMMARY

BTech graduate in Electronics and Telecommunication Engineering from SIT Pune (Class of 2025), with a minor in Artificial Intelligence and Machine Learning. Recently completed an internship at Newnop Technologies as a Software Development Intern, where I contributed to a live project using React.js. Experienced in machine learning, particularly ensemble models for pattern recognition using Python. My core focus has been on frontend development, building responsive and interactive user interfaces, while also gaining experience in backend development with Node.js. I am currently expanding my skill set with the goal of becoming a full-stack developer.

SKILLS

- Technical Skills: Python, HTML, CSS, JavaScript, React.js, MySQL, Machine Learning, Data Structures & Algorithms, Git/GitHub
- Soft Skills: Communication, Teamwork, Problem Solving, Leadership, Time Management.

EDUCATION

- BTech. Electronics and Telecommunications Engineering | SIT, Pune (2021 - 2025)
- Specialization in Artificial Intelligence and Machine Learning (2023 - 2024)

EXPERIENCE

INTERNSHIP | *Newnop* (Jan'25 - July'25)

- Worked as a Software Development Intern on a live full-stack project.
- Developed responsive web and mobile screens using React.js.
- Integrated frontend components with backend services using REST APIs.
- Gained hands-on experience in deploying frontend applications using AWS (S3, Amplify).
- Utilized Git for version control and project collaboration.
- Tools used: React.js, AWS (S3, Amplify), REST APIs, Git.

INTERNSHIP | *CodeTech IT Solutions* (Jun'24 - Jul'24)

- Developed a machine learning model to predict customer churn using Python.
- Implemented logistic regression, decision trees, and random forest to identify high-risk customers based on behavioral and demographic data.
- Performed data cleaning, feature selection, and model evaluation using accuracy, precision, recall, and F1-score.

PROJECTS

API Based Diabetes & Thyroid Disease Prediction Using Ensemble Modelling (Jul'24 - Dec'24)

- Developed machine learning models to predict diabetes and thyroid disorders using algorithms like Random Forest, SVM, XGBoost, KNN, and Linear Regression.
- Applied ensemble techniques (bagging, boosting) to improve overall model performance and robustness.
- Worked on data preprocessing, feature selection, and model evaluation using metrics like accuracy, precision, recall, and F1-score.
- Deployed the model via a web interface using React.
- Achieved prediction accuracies of approximately 88% for diabetes and 85% for thyroid datasets.

IOT Based Soil Nutrient Monitoring and Fertiliser Dispensing System (Jul'24 - Dec'24)

- Built an API-driven IoT system that monitors soil nutrients and automates fertilizer delivery.
- The system uses NPK sensors to collect real-time data on nutrient levels, sends it to a converter, then a microcontroller (Node MCU) that is responsible for displaying the contents on the LCD screen. Another microcontroller is integrated to regulate the pumps for dispensing fertilizer.
- It helps save water, reduce fertilizer waste, and improve yields while being environmentally friendly. The system can be controlled remotely.

EXTRACURRICULAR ACTIVITIES

Sports Council, SIT Pune (Jul'23 - Jul'24)

- Oversaw year-round sports activities at SIT Pune as the student representative, organizing events, workshops, and inter-college tournaments.
- Led a committee of 10 people for Taekwondo Tournament and a committee of 40 members for Prota 2023, overseeing over 1000 students.
- Contributed to SIT Pune's win in the Overall Championship Trophy in competitions across all Symbiosis colleges.

National Level Badminton Player | Delhi Badminton Association

- 1x Delhi State Badminton Champion and 2x Runner Up in girls doubles category. Represented Delhi in Various All India Tournaments - Goa, Jaipur, Guwahati, Imphal, Chandigarh, etc.
- Was ranked 14th in All India National Badminton Ranking in girls doubles, and 2nd in Delhi State.