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Career Objective:

To use my current M.Tech specialization in Artificial Intelligence and Machine Learning and my years of experience in the front and backend software development and systems engineering to create scalable and data-driven applications. I hope to be able to give back to innovative research and software solutions by considering AI/ML techniques alongside the strong support of the backend system and improving my technical knowledge continuously and participating in valuable projects with technologies.

Technical Skills:

- Language — PHP
- Database — MySQL, PostgreSQL, MongoDB
- Framework — YII, OpenCart, CI, Zend, Laravel
- API — Restful API, GraphQL, SOAP
- Frontend — HTML, JQuery, JavaScript, Vue.js, Angular

Work Experience:

Currently working in **MNIT, Jaipur as Junior Research Fellow (From 3rd December '25 to Present)**

- **Project (Design and Implementation of a Hybrid Nature Inspired and Machine Learning Based Intelligent Optimization Model for Crop Recommendation in Rajasthan, India.)**

Led a DST-funded research project on developing a Crop Recommendation System using ML and remote sensing under the supervision of Dr. Lavika Goel. Built the end-to-end architecture using Python, FastAPI, Svelte, and PostgreSQL, and optimized model training on GPU (WSL). Managed data pipelines, model development, and system deployment while coordinating with the Statistics department teams.

Technology : Python, FastAPI, Svelte, GPU, Tensorflow , ML Algorithms, Nature Inspired Algorithms, CNN, PostgreSQL, Satellite Imagery
Role : Junior Research Fellow

Worked with **MaxBrain Technologies as Senior Freelance Developer (From 1st May '25 to 28th November '25)**

- **Project (NeerAi)**

  NeerAi: Application that configures with the industry-level smart water meter (IoT, LoRaWAN communication) to enhance the user experience by providing real-time deep insight about their water consumption, also provides smart billing as a pay-as-you-consume with a real-time complaint feature and tracking.

  Technology : TypeScript, NodeJs, PostgreSQL
  Role : Sr. Backend Engineer

- **Project (IJEMME)**

IJEMME is a journal where research scholars can publish their research papers and their research contributions to society in various domains. Developed the backend panel from where users can upload the research papers and track down the status of the paper if there are any comments from the reviewer, and can resolve those comments and publish the papers in journals in specific issues.

Technology : PHP, PostgreSQL, TypeScript, NodeJS
Role : Sr. Backend Engineer

- **Project EvMitra**

EvMitra application, where EV vehicle owners can search for EV charging stations and get the proper specifications of that particular charging station with technical details and also redirect to Google Maps directions to that station from their current location. Also, coming up with EV calculators showing the amount the user can save by riding EV vehicles over others.

Technology : PHP, Laravel, PostgreSQL
Role : Sr. Backend Engineer

Worked in **Bristlecone India Private Limited as Senior Software Engineer (From 9th August '21 to 7th April '25)**

- **Project (Equifax)**

  Equifax is a customer credit reporting agency headquartered in Atlanta. It's one of the three largest customer credit reporting agency and also sells credit monitoring and fraud prevention services directly to consumers

  Technology : PHP, PostgreSQL, TypeScript, Angular, CI/CD Pipelines, Jenkins, Argo Workflows, GCP

  Role : Team Lead

- **Project (Illuminate Education)**

  Illuminate Education partners with educators to reach new levels of student performance, empowering teachers with data to serve the whole child.

  Technology : PHP, Redis, PostgreSQL, MongoDb, Javascript, Vue.js, GraphQl Docker, GCP, Amazon S3

  Role : Sr. Software Engineer

Worked in **Darshan Soft-Tech Pvt Ltd. as Senior Software Developer (From 5th October '20 to 5th August '21)**

Worked in **Cardekho.com as a Software Engineer (From 18th February '19 to 30th September '20)**

Worked in **Gcreationz.com as a Software Engineer (From 12st November '18 to 16st February 19)**

- **Project (Realatics Management System)**

  Realatics Management system is used to see the real-time analytics data, It manages the details about the Google Analytics real-time data which users go to see on individual pages, on Realatics users can see real-time data for multiple domains on a single page. All data is to be seen for all pages for filters and each level.

  To Create / Update/ Manage Analytics Domains and view the real-time data for all domains of Google Analytics domains of person, using Google API (Google Oauth and Google Analytics API) which provides the real-time details for all the domains at once.

  Technology : PHP, CI, MySQL, jQuery, AJAX, Google API's (Google oauth and Google Analytics API)

Company : Gcreationz.com

Role : Developer

Worked in **Wholesalebox Internet Pvt. Ltd** as **Backend Developer (From 6st November ’17 to 31st October 18)**

- **Project (Admin Management System)**

WholesaleBox is an online platform where retailers/shopkeepers can buy hassle-free and reduce their procurement costs at better quality, from the convenience of his/her home/shop. From WholesaleBox, a retailer can order products in bulk for reselling and the order will be delivered to his/her chosen place. An easy returns policy is provided post-delivery of the Goods.

To manage the order flow and backend process of the system, create and manage the flow of the third-party web services API of the courier partners, and manage the Accounts panel of the wholesalebox system.

Technology : PHP, OpenCart, MySQL, jQuery, AJAX

Company : WholesaleBox Internet Private Limited

Role : Software Engineer

Worked in **Coho.in** as **Backend Developer (From 19st June ’17 to 31st July ’17)**

- **Project (Property Management System)**

Property Management is most commonly used to describe property management, It manages the details about the property which are shown on Coho. in are also used to manage business contacts, and contracts that we make with property dealers and landlords.

To Create / Update/ Manage Property, also send the property details we have exposed to the API which has details about the property and the services which will be given in that facility.

Technology : PHP, CI, MySQL, jQuery, AJAX

Company : Coho.in

Role : Developer

Worked in **Cardekho.com (Girnarsoft Pvt. Ltd.)** as **Associate Software Developer (From 1st Aug ’14 to 15 June ’17)**

- **Project (Dealer Management System)**

Dealer Management is most commonly used to describe a dealer-customer relationship, It manages the details about the dealer which are shown on Cardekho.com, and is also used to manage business contacts, and contracts that we make with the dealers.

Create / Update/ Manage Dealers. To send the dealer details we have exposed the API which has details about the dealers and their service centers.

Technology : PHP, YII, MySQL, jQuery, AJAX

Company : Cardekho.com

Role : Developer

- **Project (Customer Relationship Management (CRM))**

Customer Relationship Management (CRM) entails all aspects of interaction that a company has with a customer, whether it is sales or service-related. CRM systems are also used to manage business contacts, clients, contract wins, and sales leads.

Create /Update/ Manage the customers data and their queries. Creating the customer information flow according to the business requirement and system (New Car, Sell Car, Insurance, Finance etc.).

Internal Restful API's are exposed to send the customers data from the main source.

Technology : PHP, YII, MySQL, jQuery, AJAX

Company : Cardekho.com

Role : Developer

- **Project (Lead Distributor Management (LD))**

Lead Distributor Management (LD) is the interaction in which a company manages the lead flows, which leads should be going to which of the dealers based on Brand, Model, City, Pincode, and Fuel Type. Here Lead is the customer data and its inquiry.

Any creation or update of dealer details will be fetched in our application. Based upon different types of packs creation and their tie-ups, Leads are assigned to the relevant dealer.

Technology : PHP, YII, MySQL, jQuery, AJAX

Company : Cardekho.com

Role : Developer

- **Project (Tata Motors Limited(TML))**

Tata Motors Limited is a business customer relationship and a Tata customer relationship as well. Information is taken from customers and Tata Employees also for referrals, to whom they want to refer and then they get the discount based on the employee types

Customized form for Tata Employees and the customers and gathering the information relevant to the process.

Sending the different messages to the customers and the Tata Employees to whom they have referred or not according to the process.

Technology : PHP, YII, MySQL, jQuery, AJAX

Company : Cardekho.com

Role : Developer

Publications:

- Published a Brinjal Leaf Image Dataset on Mendeley Data titled *"Preprocessed Brinjal Leaf Image Dataset for Healthy and Diseased Leaf Detection (Phomopsis Blight and Little Leaf) Using Deep Learning."*

Patents:

- **Registered Design Patent:** *Internet of Things Based Device for Real-Time Data Collection and Augmentation for Plant and Agricultural Samples*, Design No. **476293-001**, Intellectual Property India, Government of India, 2025.

Achievements:

- Selected as **JRF** in DST Project "**Design and Implementation of a Hybrid Nature Inspired and Machine Learning Based Intelligent Optimization Model for Crop Recommendation in Rajasthan, India**" at MNIT Jaipur
- Selected as **JRF** in DST Project "**IoT Enabled Waste Management System for Smart City**" at MNIT Jaipur

Education:

- **Pursuing M.Tech** in **AI&ML** from **BITS, Pilani (2025-2027)**
- **B.Tech.** in **Computer Engineering** from Rajasthan Technical University, secured 64.3% (2013)
- 12th std. from Rajasthan Board Of Secondary Education, secured 60.00% (2009)
- 10th std. from Rajasthan Board Of Secondary Education, secured 55.00% (2006)

Personal Profile:

Date of Birth	:	28th Mar 1990
Gender	:	Male
Nationality	:	Indian
Languages Known	:	English, Hindi