GenAI

1. AI-Enhanced Career Guidance

Problem Statement:

Provide personalized career guidance for students and job seekers using AI to analyze individual skills, interests, and job market trends.

Points to Include in Project:

1. Data Input: What data will be used to provide guidance (e.g., resumes, academic records, personality tests)?

2. AI Algorithms: What type of AI algorithms will be used (e.g., natural language processing, machine learning)?

3. Personalization: How will the AI offer tailored advice based on the user's skills and future job market trends?

4. Job Market Analysis: How will the AI predict trends in various industries?

5. User Interface: How will users interact with the system? Is it mobile-friendly?

6. Outcome Tracking: How will you track the success of users (e.g., successful job placements)?

7. Ethical Considerations: How will you ensure bias-free career suggestions?

2. Generated Market Price Prediction for Crops

Problem Statement:

Use AI to predict market prices for crops, helping farmers make informed decisions about planting and selling.

Points to Include in Project:

1. Data Sources: What data will be used for price prediction (e.g., historical prices, weather patterns)?

2. Prediction Models: What machine learning models will be used for price prediction (e.g., time series forecasting)?

3. User Access: How will farmers access the predictions (e.g., mobile app, SMS alerts)?

4. Accuracy: How will the accuracy of predictions be ensured and validated?

5. Risk Mitigation: How will the system help farmers mitigate risks like weather disruptions or market volatility?

6. Real-Time Updates: Will the system provide real-time or periodic updates?

7. User Training: How will farmers be educated on using the platform?

3. Med AI (Virtual Doctor)

Problem Statement:

Develop an AI-driven virtual doctor that provides medical consultation, diagnosis, and guidance, especially for underserved communities.

Points to Include in Project:

1. Symptom Analysis: How will the system collect and analyze symptoms provided by the user?

2. Diagnosis Accuracy: What AI methods will be used to ensure accurate diagnoses?

3. Medical Data Integration: Will the system use existing medical databases or patient records?

4. Accessibility: How will underserved communities access this service (e.g., app, voice-based systems)?

5. Healthcare Provider Integration: How can the system collaborate with real doctors?

6. Ethics and Data Security: How will patient privacy and data security be maintained?

7. Follow-Up Care: How will the system handle follow-up consultations or referrals to specialists?

4. Generative AI to Grow Local Businesses

Problem Statement:

Small and local businesses often struggle with limited resources, expertise, and tools to effectively market themselves, create engaging content, and compete with larger corporations. This limits their ability to grow and reach a wider audience.

Key Points to Include in Projects:

1. Content Generation: Develop AI-driven tools that can automatically generate high-quality content (e.g., blog posts, social media updates, product descriptions, etc.) based on business needs and customer preferences.

2. Marketing Automation: Use AI to help local businesses create personalized marketing campaigns, ads, and promotional materials tailored to their target audience.

3. Customer Engagement: Build AI chatbots or virtual assistants that help businesses engage with customers 24/7, answer queries, and provide recommendations.

4. Personalization: Use generative AI to create customized offers and recommendations based on customer data, which can boost sales and customer retention.

5. Cost Efficiency: Ensure that the solution is affordable for small businesses and helps them save time and resources on marketing and content creation.

6. Local Market Insights: Develop AI models that can analyze local trends, customer behaviors, and market data to help businesses make informed decisions and adapt to local demand.

7. Scalability: Ensure the AI solution can scale as the business grows, allowing it to support more customers and handle increased content and marketing needs.

8. Ease of Use: Create an intuitive interface that allows business owners with no technical expertise to easily use the AI tools.

9. Ethical Considerations: Address data privacy and transparency to ensure businesses and customers trust the platform.

10. Success Metrics: Include ways to track business growth, customer engagement, and return on investment (ROI) through the use of AI tools.

Web3

1. Collab Hub (Decentralized GitHub Alternative)

Problem Statement:

Create a decentralized platform for code collaboration that is censorship-resistant, secure, and rewards open-source contributions.

Points to Include in Project:

1. Decentralization Mechanism: How will the platform ensure decentralization (e.g., blockchain, IPFS)?

2. Security: How will the platform secure repositories and contributions?

3. Collaboration Tools: What features will enable seamless collaboration (e.g., version control, project management)?

4. Incentive System: How will open-source contributors be rewarded?

5. Governance: How will the platform handle decision-making and governance (e.g., voting systems)?

6. Censorship Resistance: How will the platform handle issues of censorship and data integrity?

7. User Adoption: How will you attract developers and teams to the platform?

2. DeFi for Financial Inclusion

Problem Statement:

Develop a decentralized finance (DeFi) platform to provide financial services (lending, credit) to unbanked populations.

Points to Include in Project:

1. Service Offerings: Define the core services offered (e.g., microloans, credit without banks).

2. Security: How will the platform ensure user funds are secure?

3. Decentralization: How will DeFi principles ensure inclusivity without intermediaries?

4. Blockchain Usage: Which blockchain technologies will be used and why?

5. User Interface: How will users, particularly unbanked individuals, easily access the service?

6. Regulatory Compliance: How will you navigate regulations regarding financial services?

7. Impact Measurement: How will you measure success in terms of financial inclusion?

3. DAO for Social Impact Projects

Problem Statement:

Design a decentralized autonomous organization (DAO) platform that enables transparent and democratic funding of social impact initiatives. The platform should allow contributors to vote on which projects to fund and track the use of funds in real-time.

Key Points to Include in Projects:

1. DAO Structure: Define the governance structure of the DAO, including voting mechanisms and decision-making processes. Use blockchain technology to ensure transparency and decentralization.

2. Voting Mechanism: Design a fair and democratic voting system that allows contributors to vote on which social impact projects should receive funding.

3. Fund Allocation: Build a system that automatically allocates funds based on the voting results, ensuring that the community's decisions are implemented without any central authority.

4. Transparency: Use blockchain to track every transaction and fund allocation, allowing contributors

and the public to see where the money is going and how it's being used.

5. Real-Time Fund Tracking: Ensure that all stakeholders can monitor the use of funds in real-time to ensure accountability and trust in the platform.

6. Community Engagement: Create tools that encourage community members to participate actively, whether through discussions, project proposals, or voting.

7. Smart Contracts: Implement smart contracts to automate key processes like fund distribution, milestone tracking, and reporting.

8. Impact Measurement: Develop a system to track and measure the success and impact of the funded social initiatives.

9. Security & Compliance: Ensure that the platform is secure from hacking or fraud, and adheres to any legal and regulatory requirements.

10. Sustainability: Propose ways to ensure the DAO's long-term sustainability, such as through transaction fees, staking mechanisms, or partnerships with social enterprises and NGOs.

4. Web3 for Fair Trade and Farmer Empowerment

Problem Statement:

Farmers, especially in developing countries, often face exploitation from middlemen and do not receive fair prices for their products. The lack of transparency in supply chains and unfair trading practices contribute to poverty in rural farming communities.

Key Points to Include in Projects:

1. Blockchain for Transparency: Use blockchain to create a transparent supply chain where every transaction from the farmer to the end consumer is recorded and verifiable. This will reduce the chances of exploitation by middlemen.

2. Smart Contracts for Fair Pricing: Implement smart contracts to ensure that farmers are paid fairly and promptly based on predefined conditions, such as the quantity and quality of produce.

3. Direct Market Access: Create a platform that connects farmers directly with buyers, bypassing middlemen and ensuring farmers receive better prices for their products.

4. Decentralized Trade Verification: Build a decentralized system for verifying the authenticity and quality of

products, ensuring buyers can trust the origin of the produce.

5. Payment in Cryptocurrency: Offer farmers the option to receive payments in stable cryptocurrencies or tokens, providing a secure and transparent way to get paid, especially in regions with volatile currencies.

6. Farmer Empowerment: Educate and train farmers on using the platform and understanding the benefits of blockchain and Web3 technology for their trade.

7. Impact on Rural Communities: Highlight how the solution will directly benefit farmers by increasing their income, reducing exploitation, and improving their overall livelihood.

8. Tokenization of Goods: Explore the possibility of tokenizing agricultural products, allowing farmers to pre-sell their future produce or participate in decentralized finance (DeFi) opportunities.

9. Traceability for Consumers: Provide end consumers with access to detailed information about the origin and journey of the products they purchase, promoting fair trade and ethical sourcing.

10. Sustainability: Ensure that the platform is easy to use and scalable for farmers with limited access to technology. Consider offline solutions or partnerships with local organizations to support implementation.

OPEN INNOVATION

Social Good

Develop solutions aimed at improving social welfare and addressing challenges that affect marginalized communities or public well-being.

Build for Pune

Create a solution that addresses specific challenges faced by Pune city (e.g., traffic congestion, waste management, water conservation).

Green Technology

Develop environmentally friendly solutions to address challenges such as climate change, renewable energy, or sustainable living.

Software as a Service (SaaS) / Platform as a Service (PaaS)

Develop a cloud-based solution that offers software or platforms as a service for businesses or individuals.